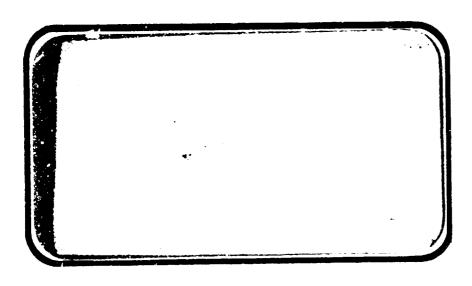
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(NASA-CR-128780-Vol-2) STATIC STABILITY AND CONTROL EFFECTIVENESS OF MODELS 12-0 VOLUME 3 (Chrysler Corp.) 785 p. RC VOLUME 3 (Chrysler Corp.) 785 p HC

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SPACE SHUTTLE

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JOHNSON SPACE CENTER HOUSTON, TEXAS

BATA Main Agement services SPACE DIVISION

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VOLUME III

STATIC STABILITY AND CONTROL

EFFECTIVENESS OF MODELS 12-0 AND 34-0

OF THE VEHICLE 3 CONFIGURATION

By

E. C. Allen and T. Tuttle, Rockwell International

Prepared under NASA Contract Number NAS9-13247

bу

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for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL SPECIFICS:

Test Number:

MSFC TWT 574

NASA Series No.:

OA48

Date:

25 May - 11 June, 1973

Occupancy:

165 Hours

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STATIC STABILITY AND CONTROL

EFFECTIVENESS OF MODELS 12-0 AND 34-0

OF THE VEHICLE 3 CONFIGURATION

By

E. C. Allen* and T. Tuttle*

ABSTRACT

This report presents static stability and control effectiveness characteristics of two 0.004 scale models of the vehicle 3 configuration. The models have been designated 12-0 and 34-0, but are referred to as 139B and 139 respectively in this report. The components investigated consisted of a single aft body, vertical/rudder, OMS pods with two interchangeable wings, four interchangeable forward bodies, four trimmers, and a spoiler.

The test was conducted in the NASA/MSFC 14 x 14 Inch Trisonic Wind Tunnel over a Mach number range from 0.6 to 4.96. Angles of attack from 0 to 60 degrees and angles of sideslip from -10 to 10 degrees at 0, 10, 20, 30, and 40 degrees angle of attack were tested. Elevon, body flap, and speed brake deflection composed the parametric considerations. No grit was placed on the models during the test.

This document has been divided into three volumes. Volume I contains most of the longitudinal data. Volume II presents the lateral-directional characteristics and some additional longitudinal data. The tabulated source data and incremental data figures are presented in Volume III.

* Rockwell International

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- (B): CL, CN, CLM, XCP/L vs. ALPHA; CL, CN vs. CLM; CD, CDF, CA, CAF, CAB, L/D vs. ALPHA: CL vs. CD
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- (G): DCL, DCN, DCIM, DCD, DCA, DCAB vs. ALPHA
- (H): DCL, DCD, DCN, DCA, DCLM vs. DBF

NOMENCLATURE General

SYMBOL	SADSAC SYMBOL	DEFINITION
8		speed of sound; m/sec, ft/sec
Сp	CP	pressure coefficient; $(p_1 - p_{\infty})/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
đ	Q(NSM) Q(PSF)	dynamic pressure; $1/2 \rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
v		<pre>velocity; m/sec, ft/sec</pre>
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
φ	PRI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³
	R	eference & C.G. Definitions
Ab		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
L _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
•	YMRP	moment reference point on Y sxis
	ZMRP	moment reference point on Z exis
SUBSCRID b 1 s t	<u>PTS</u>	base local static conditions total conditions free stream

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
$^{\mathrm{C}}$ N	CN	normal-force coefficient; normal force qS
$C_{\mathbf{A}}$	CA	axial-force coefficient; axial force
$c_{\mathbf{Y}}$	CY	side-force coefficient; side force qS
CA _b	CAB	base-force coefficient; -(CPBAVG) $\frac{A_b}{S_{rel}} \cdot \frac{A_c}{S_{ref}}$ - (CPC) $\frac{A_c}{S_{ref}}$
$^{\mathrm{c}_{\!A_{\!f}}}$	CAF	forebody axial force coefficient, C_A - C_{A_b}
C _m	CIM	pitching-moment coefficient; pitching moment qS/REF
c_n	CYN	yawing-moment coefficient; yawing moment qSb
c T	CBL	rolling-moment coefficient; rolling moment qSb
		Stability-Axis System
${\tt C_L}$	CL	lift coefficient; $\frac{\text{lift}}{\text{qS}}$
c_D	CD	drag coefficient; $\frac{drag}{qS}$
c_{D_b}	CDB	base-drag coefficient; base drag
$\mathrm{c}_{\mathrm{D}_{\mathbf{f}}}$	CDF	forebody drag coefficient; $C_D - C_{D_b}$
$c_{\mathbf{Y}}$	CY	side-force coefficient; side force
c_m	CLM	pitching-moment coefficient; pitching moment qSLREF
$C_{\mathbf{n}}$? IN	yawing-moment coefficient; yawing moment
c /	CSL	rolling-moment coefficient; rolling moment
L/D	r/d	lift-to-drag ratio; C _I /C _D

NOMENCLATURE (CONTINUED)

ADDITIONS TO NOMENCLATURE

SYMBOL	SADSAC SYMBOL	DEFINITION
$oldsymbol{\delta}_{ ext{BF}}$	BDFLAP	body flap, surface deflection angle, positive deflection, trailing edge down; degrees.
å e	ELEVTR	elevator, surface deflection angle, positive deflection, trailing edge down; degrees.
∂ SB	SPDERK	speed brake, split rudder inclusive deflection angle between outer surface, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{rf} = (\delta_{rL} + \delta_{rR})/2$, positive deflection; degrees. SPDBRK = 999.99, basic setting. See Dataset Collation Sheets.
δs	SPOILR	spoiler, surface deflection angle, positive deflection, trailing edge down; degrees.
$c^{\Gamma^{\alpha}}$	CLALFA	derivative of lift coefficient with respect to alpha, (alpha = ±5°); per degree.
$^{ ext{c}}$ у $_{oldsymbol{eta}}$	CYBETA	derivative of side force coefficient with respect to beta (beta = ±5°); per degree.
$^{\mathrm{c}}{}_{\mathrm{n}oldsymbol{eta}}$	CANFEL	derivative of yawing moment coefficient with respect to beta (beta = $\pm 5^{\circ}$); per degree, body axis system.
$^{\mathrm{c}}\!\ell_{\!oldsymbol{eta}}$	CBLBET	derivative of rolling moment coefficient with respect to beta (beta = $\pm 5^{\circ}$); per degree, body axis system.
a.c.	xcp/L	local longitudinal aerodynamic center based on body length; moment reference point minus the local longitudinal static stability derivative; XCP/L = [(XMRP/LBody) - (CLM/CN)(LREF/LBody)]; body axis.
$c_{D\alpha=0}$	CDAFO	drag coefficient at zero angle of attack (alpha = 0).
$^{C_{D_{\mathbf{F}}}}\alpha = 0$	CDFAFO	forebody drag coefficient at zero angle of attack (alpha = 0).

NOMENCLATURE (CONTINUED)

ADDITIONS TO NOMENCLATURE

SYMBOL	SADSAC SYMBOL	DEFINITION
$c_{\mathbf{L}_{\alpha}=0}$	CLAFO	lift coefficient at zero angle of attack (alpha = 0).
$C^{m}\alpha = 0$	CLMAFO	pitching moment coefficient at zero angle of attack (alpha = 0).
$C_{m}(C_{L} = 0)$	CIMCIO	pitching moment coefficient at zero lift coefficient (CL = 0).
•	L/DMAX	maximum lift-drag ratio.
$\alpha_{(L/D_{\max})}$	ALFLDM	angle of attack at maximum lift-drag ratio; degrees.
ΔCA	DCA	incremental axial force coefficient, algebraic difference of two runs.
$\Delta c_{A_{ extbf{B}}}$	DCAB	incremental base axial force coefficient, algebraic difference of two runs.
$\Delta c_{\mathbf{A_F}}$	DCAF	incremental forebody axial force coefficient, algebraic difference of two runs.
∆ c _D	DCD	incremental drag coefficient, algebraic difference of two runs.
$\Delta c_{\Gamma_{\overline{F}}}$	DCDF	incremental forebody drag coefficient; algebraic difference of two runs.
∆c _L	DCI	incremental lift coefficient, algebraic difference of two runs.
$\Delta C_{\mathbf{m}}$	DCLM	incremental pitching moment coefficient, algebraic difference of two runs.
∆c _N	DCN	incremental normal force coefficient, algebraic difference of two runs.
$\Delta \delta_{ m BF}$	D BF	incremental body flap, incremental difference between two runs, surface deflection angle, positive deflection, trailing edge down; degrees.

NOMENCLATURE (CONCLUDED)

ADDITIONS TO NOMENCLATURE

SYMBOL	SADSAC SYMBOL	DEFINITION
Δðe	DE	incremental elevon, algebraic difference of two runs, surface deflection angle, positive deflection, trailing edge down; degrees.
$\Delta oldsymbol{\delta}_{ extsf{S}}$	DS	incremental spoiler, incremental difference between two runs, surface deflection angle, positive deflection, trailing edge down; degrees.

MODEL DESCRIPTION

The model geometry (0.004-scale) is shown in figure 2. The model was constructed using aluminum for the wing and stainless steel for the body, elevons, fins, speed brakes, and trimmers. The capability to obtain wing-body-tail, wing-body and body-alone data was provided. In addition, the model had deflected elevons, speed brakes, and body flap for the following combinations:

$$\delta_{\rm e} = 0, +15^{\circ}, -20^{\circ}, -40^{\circ} \text{ (elevon)}$$

$$\delta_{SB} = 0, 24.92^{\circ}, 54.92^{\circ} \text{ (speed brake)}$$

$$\delta_{\rm BF} = 0, 13.75^{\circ}, -14.25^{\circ} \text{ (body flap, basic)}$$

$$\delta_{\rm BF} = 0$$
, 13.75°, -22.75° (body flap, large area)

Deflection angles were obtained by replacing the control surface with a separate surface set to the desired angle.

The model assembly had the following components:

Aft body - stainless steel

Vertical - stainless steel

Speed brakes - stainless steel

OMS pods - stycast

Forward body (4 interchangeable) - stainless steel

- 1 per VL70-000139
- 1 per VL70-000139, alternate cambered
- 1 per VL70-000139B
- 1 per VL70-000139B, alternate cambered

Wing and elevons (2 interchangeable) - aluminum

- 1 per VL70-000139
- per VL70-000139B

Trimmers - four trimmers were tested with the V770-000139 forward body (see Table IV).

Spoiler - one set of spoilers was tested with the VL70-000139 model configuration, (see sketch, Figure 4).

The model-balance combination was mounted to the tunnel pitch sector using the MSFC double knuckle sting numbers 1 and 3. The alpha and beta schedules noted in Table II required the following sting settings:

MSFC DOUBLE KNUCKLE STING NUMBER 1

α Range	Offset	Sting No.	Adapter	Balance	Adapter
(deg)	(deg)		Hole	No.	Hole
A 0 to 20 B 5 to 25 H - 10 to 10 A 0 to 20 E 20 to 40 K 40 to 60	10 15 0 10 30 50	1 1 1 1 1	53 53 53 53 54 51	2 113 113 113 1	9 10 1 2 5 4

MSFC DOUBLE KNUCKLE STING NUMBER 3

a Ran	ge	Offset	Sting No.	Adapter	Balanc	e Adapter
(deg	;)	(deg)		Hole	No.	Hole
Α.	0 +0 20	10	3	61	3	23

Pressure transducers were used to measure base pressures. Two base pressure tubes and one cavity pressure tube were used. The base pressure tubes were "teed" together. The base and cavity areas are shown in figure 3 along with the base pressure tube locations.

CONFIGURATIONS INVESTIGATED

Configurations investigated consisted of the 0.004 scale models 34-0 and 12-0 (139 and 139B) with and without an alternate cambered forebody.

The model components are:

Symbol 34-0 (139) Model	12-0 (139B) Model	<u>Definition</u>
B17	B19	orbiter body, basic
B20	B21	orbiter body, alternate cambered
C7	C7	canopy, basic
R 5	R5	rudder
٧٧	v 7	vertical tail
W103	W107	wing, basic
W109	W11.0	wing, alternate for cambered forebody
W105		wing, 500 in. glove radius
F5	F5	body flap
F6	F 6	body flap, large area
E22	E 23	elevon
M}∔	Μ ⁾ ŧ	OMS pods
н19	H19	trimmer, glove apex (20°)
H20	HOO	trimmer, glove apex (10°)
H22	H22	trimmer, cabin (40°)
H23	н23	trimmer, nose (40°)
Z 1	Zl	spoiler

CONFIGURATIONS INVESTIGATED (Continued)

A complete description of these model components is given in Table III entitled Dimensional Data. A description of the test conditions (angles of attack and parametric considerations) to which each model configuration was subjected is contained in Table II entitled Data Set Collations.

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by utilizing two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50, and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.44, 1.93 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

The tunnel flow is established and controlled with a servo actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F. The air then passes through the test section which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of 20° ($\pm 10^{\circ}$). Sting offsets are available for obtaining various maximum angles of attack up to 90° .

DATA REDUCTION

All model forces and moments were resolved in the body and stability axis systems and are presented in the form of non-dimensional coefficients. The balance centerline is 0.020 inches above the MRP (see Figure 2) and was corrected for pitching and rolling moment.

Two base pressures and one cavity pressure were recorded. The base and cavity areas are shown in Figure 3, along with the base pressure tube locations. Equations used in base pressure coefficient calculations are:

$$CA = CAF - (CPBAVG) \frac{A_b}{S_{ref}}$$

CAB = -(CPBAVG)
$$\frac{A_b - A_c}{S_{ref}}$$
 - (CPC) $\frac{A_c}{S_{ref}}$

CPBAVG = average base pressure coefficient =
$$\frac{P_{\text{bavg}} - P_{\infty}}{q}$$

CPC = cavity pressure coefficient =
$$\frac{P_c - P_{\infty}}{q}$$

Reference dimensions utilized in the reduction of the non-dimensional coefficients are:

COGILICION OF OTO!	FULL SCALE	MODEL SCALE
REFERENCE AREA (Sref)	2690.0 ft. ²	6.198 in. ²
REFERENCE LENGTH (Lref)	474.8 in.	1.899 in.
(M.A.C) REFERENCE SPAN (bref)	936.7 in.	3.747 in.
REFERENCE SPAN (bref) (WING SPAN)	838.7 in.	3.355 in.
MCMENT REFERENCE CENTER (MRP) (From Nose)	0,001	

DATA REDUCTION (Concluded)

	FULL SCALE	MODEL SCALE
BODY LENGTH (ℓ_b)	1290.3 in.	5.161 in.
BASE AREA (Ab) (See Fig 2)	434.2 ft. ²	1.0004 in. ²
CAVITY AREA (A _C)	137.5 ft. ²	0.3167 in. ²

Data were corrected for weight tares and sting deflections.

Axial-force and drag coefficients for Mach numbers less than 1.96 for the following datasets (tunnel runs 256 thru 267) are not included in the plotted data and the tabulated listing. This data was judged to be erroneous:

R87048

R87049

R87058

R87066

R87067

R87075 (M = 1.2 only)

T: MSFC TWT 57	TAB	LE I.	DATE :MAY-JUN 73
	TEST CO	NDITIONS	
MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATUR (degrees Fahrenheit)
0.6	4.6 x 10 ⁶ /ft.	4.35	100
0.9	5.9 x 10 ⁶ /ft.	7.35	100
1.2	6.1 x 10 ⁶ /ft.	9.12	1.00
1.96	6.8 x 10 ⁶ /ft.	10.22	100
2.99	4.1 x 10 ⁶ /ft.	5.20	140
4.96	4.9 x 10 ⁶ /ft.	3.07	140
BALANCE UTILIZED:	MSFC No. 231 Six	Component	
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	122 lbs.	± .61	±.0082
SF	52 lbs.	± .26	±.0035
AF	22 lbs.	± .10	±.0013
PM	122 in-lbs.	± .61	±.0015
RM	30 in-lbs.	± •15	±.0004
YM	53 in-lbs.	±.27	±.0007
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COMMENTS:			

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	MACH NUMBERS (OR ALTERNATE INDEPENDEN	Т
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TABLE III. DIMENSIONAL DATA

MODEL COMPONENT: BODY B17		
GENERAL DESCRIPTION: <u>Fuselange</u> , orbiter per Rockwell Lines VL70-	3 configuration, 1 -000139	<u>ightweight</u>
Model Scale = 0.,004		
DRAWING NUMBER VL70-	000139	
DIMENSION:	FULL SCALE	MODEL SCALE
Length ~ IN.	1290.3	5.16120
Max Width ~ IN.	267.6	1.07040
Max Depth - IN.	244.5	0.9780
Fineness Ratio	4.82175	_4.82175
Areo~Ft ²		0.0010
Max Cross-Sectional	386.67	0.00619
Planform	-	
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: BODY B19		
GENERAL DESCRIPTION: Fuselage, 3 co	onfiguration, Lic	ghtweight
Orbiter per VL70-000139B		
NOTE: Identical to B17 except fo	rebody	
Model Scale = 0.004		
DRAWING NUMBER VL70-00	0139B	
DIMENSION:	FULL SCALE	MODEL SCALE
Length ~ IN.	1290.3	5.16120
Max Width ~ IN.	267.6	1.07040
Max Depth ~ IN.	244.5	0.97
Fineness Ratio	4.82175	4.82175
Area ~ Ft ²		
Max Cross-Sectional	386.67	0.00619
Planform ·		
Wetted		
Base		

MODEL COMPONENT: BODY B20		
	•	
GENERAL DESCRIPTION: Fuselage. 3	configuration, Lig	htweight
Orbiter per Alt. Cambered Forebody	for VL70-000139.	Note:
B20 Identical to B17 except forebox		
Model Scale = 004		
DRAWING NUMBER Alt. Car Forebod VL70-00	mbered y Per 0139	
DIMENSION:	FULL SCALE	MODEL SCALE
Length ~ IN.	1290.3	5.16120
Max Width ~ IN.	257.6	1.07040
Max Depth ~ IN.	244.5	0.9780
Fineness Ratio	4.82175	4.82175
Area ~Ft ²		
Max Cross-Sectional	386.67	0.00619
Planform	and the second second second second second	
Wetted	The second secon	
Base	-	

MODEL COMPONENT: 30DY B21		
GENERAL DESCRIPTION: <u>Fuselage</u> , 3 Conf Orbiter Per Alt. Cambered Forebody		
NOTE: B21 Identical to B19 Except I	Forebody.	
Model Scale = .004 Alt. Camber	~^d	
DRAWING NUMBER Property of the comments of th		
DIMENSION:	FULL SCALE	MODEL SCALE
Length ~ IN.	1290.3	5,16120
Max Width ~ IN.	267.6	1.07040
Max Depth IN.	244.5	0.9780
Fineness Ratio	4.82175	4.82175
Area ~ Ft?		
Max Cross-Sectional	386,67	0.00619
Planform		
Wetted		
Base		

MODEL COMPONENT:	Canopy - C7
	•
GENERAL DESCRIPTION:	Configuration 3 per Rockwell Lines
VL_70-000139	
Model Scale = .004	
DRAWING NUMBER	VL70-000139
DIMENSION:	FULL SCALE MODEL SCALE
Length $(x_0 = 433)$ Max Width	to x _o = 670) in.FS 237 0.9480
Max Depth (8 =	to $E_0 = 501$) in FS
Fineness Ratio	
Area	
Max Cross-Section	onal
Planform	
Wetted	
Base	

MODEL COMPONENT: R5 - Rudder		-
GENERAL DESCRIPTION: 2A and 3 configuration VL70-000095 and VL70-000139	n per Rockwell	lines
Scale Model = .004		
DRAWING NUMBER: VL70-000139 VL70-000095		
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area ~ Ft ²	106.38	0.00170
Span (equivalent) ~ IN.	201.0	0.8040
Inb'd equivalent chord	91.585	0.36634
Outb'd equivalent chord	50.833	0.20333
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
' Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) Ft^3	526.13	0.00003
Product of area and mean chor	-d	

Scale Model = .004 Scale Model = .004	MODEL COMPONENT: VERTICAL - V 7	(Lightweig	nt orbiter confid	curation)
DRAWING NUMBER: VL70-0000139 VL70-000095	GENERAL DESCRIPTION: Centerline	e vertical	tail, double wede	ce airfcil
DRAWING NUMBER: VI70-000095 VI70-000095	with rounded leading edge			
DRAWING NUMBER: VI70-000095 VI70-000095				
DIMENSIONS: FULL-SCALE MODEL SCALE	Scale Model = .004	VI 70-00001	? Q	
TOTAL DATA Area (Theo) ~ Ft² 425.92 0.00682	DRAWING NUMBER:	VL70-00009	5	
Area (Theo) ~ Ft ² Planform Span (Theo) ~ In. Aspect Ratio Rate of Taper Taper Ratio Sweep Back Angles, degrees Leading Edge Trailing Edge O.25 Element Line Chords: Root (Theo) WP Tip (Theo) WP MAC Fus. Sta. of .25 MAC W. P. of .25 MAC Airfoil Section Leading Wedge Angle Deg Leading Wedge Radius ~IN. Void Area A25.92 0.00682 1.26288 1.26288 1.675 1.675 0.507 0.	DIMENSIONS:		FULL-SCALE	MODEL SCALE
Planform Span (Theo) ~ In. Aspect Ratio Rate of Taper Taper Ratio Sweep Back Angles, degrees Leading Edge Trailing Edge 0.25 Element Line Chords: Root (Theo) WP Tip (Theo) WP MAC Fus. Sta. of .25 MAC W. P. of .25 MAC W. P. of .25 MAC B. L. of .25 MAC Airfoil Section Leading Wedge Angle Deg Trailing Wedge Angle Deg Leading Edge Angle Deg Leading Edge Angle Deg Leading Edge Angle Deg Leading Edge Radius ~IN. Place Angle Angle Deg Leading Edge Radius ~IN. 1.26288 1.0675 1.675 0.507 0.507 0.507 0.507 0.507 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	TOTAL DATA			
Span (Theo) ~ In. 315.72 1.26288 Aspect Ratio 0.507 1.675 Rate of Taper 0.507 0.507 Taper Ratio .404 .404 Sweep Back Angles, degrees 45.000 45.000 Leading Edge 26.249 26.249 O.25 Element Line 41.130 41.130 Chords: Root (Theo) WP 103.47 0.43388 Tip (Theo) WP 103.47 0.43388 MAC 199.81 0.79924 Fus. Sta. of .25 MAC 1463.50 5.8540 W. P. of .25 MAC 535.522 2.542088 B. L. of .25 MAC 0.00 0.00 Airfoil Section 0.00 10.000 Leading Wedge Angle Deg 14.520 14.920 Leading Edge Radius ~IN. 2.00 0.0080 Void Area 13.17 0.00021	Area (Theo) ~ Ft ²		425.92	0.00682
Rate of Taper Taper Ratio Sweep Back Angles, degrees Leading Edge Trailing Edge 0.25 Element Line Chords: Root (Theo) WP Tip (Theo) WP MAC Fus. Sta. of .25 MAC W. P. of .25 MAC W. P. of .25 MAC B. L. of .25 MAC Leading Wedge Angle Deg Leading Wedge Angle Deg Leading Edge Radius ~IN. Root (Theo) WP Triling Wedge Radius ~IN. Root (Theo) WP Triling Wedge Radius ~IN. Root (Theo) WP To 0.507 45.000 45.000 45.000 45.000 45.000 45.0000 45.0000 45.0000 45.0000 45.0000 45.0000 45.0000 45.0000 45.0000 45.0000 4	Span (Theo) ~ In.			
Sweep Back Angles, degrees Leading Edge Z6.249 Z6	Rate of Taper		0.507	0.507
Trailing Edge 0.25 Element Line Chords: Root (Theo) WP Tip (Theo) WP MAC Fus. Sta. of .25 MAC W. P. of .25 MAC B. L. of .25 MAC Airfoil Section Leading Wedge Angle Deg Leading Edge Radius ~IN. Void Area 26.249 41.130 26.249 41.130 1.0740 1.0740 0.43388 1.0740 1.0740 1.0740 0.43388 0.79924 0.79924 1.0790 1.0790 1.07902 1.079000 1.07900 1.07900 1.07900 1.07900 1.07900 1.07900 1.07900 1.07	Sweep Back Angles, degrees			
Chords: Root (Theo) WP Tip (Theo) WP MAC Fus. Sta. of .25 MAC W. P. of .25 MAC B. L. of .25 MAC Airfoil Section Leading Wedge Angle Deg Leading Edge Radius ~IN. Void Area 268.50 1.0740 0.43388 0.79924 1463.50 5.8540 0.00 0.00 1463.50 5.8540 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Trailing Edge		2 6.249	26.249
Tip (Theo) WP MAC Fus. Sta. of .25 MAC W. P. of .25 MAC Airfoil Section Leading Wedge Angle Deg Truiling Wedge Angle Deg Leading Edge Radius ~IN. Void Area 103.47 199.81 0.79924 1463.50 5.8540 2.542088 0.00 10,000 11,520 14,920 0.0080 0.0080	Chords:			
Fus. Sta. of .25 MAC W. P. of .25 MAC B. L. of .25 MAC Airfoil Section Leading Wedge Angle Deg Truiling Wedge Angle Deg Leading Edge Radius ~IN. Void Area 1463.50 5.8540 2.542088 0.00 10.000 11.000 14.920 2.00 2.00 0.0080 0.0080	Tip (Theo) WP		103.47	0.43388
B. L. of .25 MAC Airfoil Section Leading Wedge Angle Deg Truiling Wedge Angle Deg Leading Edge Radius ~IN. Void Area 0.00 0.00 10.000 14.920 0.0080 0.000 10.000 14.920 0.0080 0.00021	Fus. Sta. of .25 MAC		1463,50	5.8540
Leading Wedge Angle Deg 10,000 10,000 Truiling Wedge Angle Deg 12.520 14.920 Leading Edge Radius ~IN. 2.00 0.0080 Void Area 13.17 0.00021	B. L. of .25 MAC			
Trailing Wedge Angle Deg 14.520 14.920 Leading Edge Radius ~IN. 2.00 0.0080 Void Area 13.17 0.00021	Leading Wedge Angle	Deg		
Void Area <u>13.17</u> <u>C.00021</u>	Trailing Wedge Angle	Deg		0.0080
Didiketed Vika			<u>13.17</u>	0.00021

TABLE III. (CONTIN		
MODEL COMPONENT: WING-W103 New Lightweigh		
GENERAL DESCRIPTION: Orbiter 3 configu	ration per lines VI	270-000139
NOTE: (Dihedral angle is defined at the	ne lower surface of	the wing
at the 75.33% element line projected in	nto a plane perpend.	icular
to the FRI. Scale Model	1 = 0.004	
TEST NO.	DWG. NO. VL70	000139
DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft ²	2690.00	0.04304
Planform	936.68	3.74672
Span (Theo In.	2.265	2.265
Aspect Ratio	$\frac{2.263}{1.177}$	$\frac{2.2.3}{1.177}$
Rate of Taper	0.200	0.200
Taper Ratio	3.500	3.500
Dihedral Angle, degrees	3.000	3.000
Incidence Angle, degrees	+3.000	+3.000
Aerodynamic Twist, degrees	- 3.7700	
Sweep Back Angles, degrees	45.000	45.000
Leading Edge	-10.24	-10.24
Trailing Edge	3 5,209	35.209
0,25 Element Line		
Chords: Root (Theo) 5.P.O.O.	68 9.24	2.75696
Tip, (Theo) B.P.	137.85	0.55140
	474.81	1.89924
MAC Fus. Sta. of .25 MAC	The state of the s	4.54756
W.P. of .25 MAC	Section of the sectio	1.19680
B.L. of .25 MAC		0.72852
- unacco	Control of the Contro	
Area (Theo) Ft ²	1752.29	0.02804_
Area (Theo) Ft	720.68	2.88272
Span, (Theo) In. BP108	2,058	2.058
Aspect Ratio	0.2451	0.2451
Taper Ratio		
Chords	562.40	2.2496
Root BP108	137.85	0.55140
Tip 1.00 b	-	
MAC 2	393.03	1.57212
Fus. Sta. of .25 MAC	1 185.31	4.74124
W.P. of .25 MAC	300.20	1.20080
B.L. of .25 MAC	<u>251.76</u>	1.00704
Airfoil Section (Rockwell Mod NASA)		
XXXX~64	3.0	.10
Root <u>b</u> =	.10	
ጀ ™1p b ≖	. 1.2	.12
7	•	
Data for (1) of (2) Sides		-
Leading Edge Cuff Planform Area Ft ²	120.33	0.00192
Leading Edge Intersects Fus M. L. @ St	ta <u>560.0</u>	2 240
Leading Edge Intersects Wing @ Sta	1035.0	4.140

MODEL COMPONENT: WING-W 107 New Lightweight Orbiter			
GENERAL DESCRIPTION: Orbiter 3 configurat	ion per lines VI	L70-000139B.	
wind sugget suff. airfoil,			
Scale Model = 0.004			
	DWG. NO. VL70	-000139	
TEST NO.			
DIMENSIONS:	FULL-SCALE	MODEL SCALE	
TOTAL DATA Area (ineo.) Ft2 Planform Span (Theo In. Aspect Ratio Rate of Taper Taper Ratio Dihedral Angle, degrees Incidence Angle, degrees Aerodynamic Twist, degrees Sweep Back Angles, degrees Leading Edge Trailing Edge 0.25 Element Line Chords: Root (Theo) B.P.0.0. Tip, (Theo) B.P. MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC EXPOSED DATA Area (ineo) Ft Span, (Theo) In. BP108 Aspect Ratio Taper Ratio Chords Root BP108 Tip 1.00 b MAC Fus. Sta. of .25 MAC W.P. of .25 MAC W.P. of .25 MAC Airfoil Section (Rockwell Mod NASA) XXXX-64 Root b Z	2690.00 936.68 2.265 1.177 0.200 3.500 0.500 +3.000 45.000 -10.24 35.209 689.24 137.85 474.81 1136.89 299.20 182,13 1752.29 720.68 2.058 0.2451 562.40 137.85 393.03 1185.31 300.20 251.76	0.04304 3.74672 2.265 1.177 0.200 3.500 0.500 +3.000 45.000 -10.24 35.209 2.75696 0.55140 1.39924 4.54756 1.19680 0.72852 0.02804 2.88272 2.059 0.2451 2.2456 0.55140 1.57212 4.74124 1.20080 1.00704	
Tip b ≥ > 2	.12	+ .12	
Data for (1) of (2) Sides Leading Edge Cuff Planform Area Ft Leading Edge Intersects Fus M. L. @ Sta Leading Edge Intersects Wing @ Sta	118.333 500 1083.4	0.00189 2.0 4.3336	

MODEL COMPONENT: WING-W 109 New Mightweight On	rbiter	-
GENERAL DESCRIPTION: Orbitar, confiduration per	r lines Altn.	Cambered
	dral Angle is	
at the lower surface of the wing at the	75.33% elemen	t line
projected into a plane perpendicular to	the FRI	Cambered Forebod
Scale Model = .004 TEST NO.		VL70-000139
DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA Area (Theo.) Ft2 Planform Span (Theo In. Aspect Ratio Rate of Taper Taper Ratio Dihedral Angle, degrees Incidence Angle, degrees Aerodynamic Twist, degrees Sweep Back Angles, degrees Leading Edge Trailing Edge C.25 Element Line Chords: Root (Theo) B.P.O.O. Tip, (Theo) B.P. MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC EXPOSED DATA Area (Theo) Ft2 Span, (Theo) In. BP108 Aspect Ratio Taper Ratio Chords Root BP108 Tip 1.00 b MAC Fus. Sta. of .25 MAC W.P. of .25 MAC W.P. of .25 MAC M.P. of .25 MAC	2690.00 936.68 2.265 1.177 0.200 3.500 3.000 +3.000 -10.24 35.200 689.24 137.85 474.81 1136.89 299.20 182.13 1752.29 720.68 2.058 0.2451 562.40 137.85 393.03 1185.31 300.20 251.76	0.04304 3.74672 2.265 1.177 0.200 3.500 3.000 +3.000 +3.000 -10.24 35.209 2.75696 0.55140 1.89924 4.54756 1.19680 0.72852 0.02804 2.88272 2.058 0.2451 2.2496 0.55140 1.57212 4.74124 1.20080 1.00704 .10 .12
Data for (1) of (2) Sides Leading Edge Cuff Planform Area Ft Leading Edge Intersects Fus M. L. @ Sta Leading Edge Intersects Wing @ Sta	$\frac{120.33}{560.0}$ $\frac{1035.0}{1}$	$\begin{array}{r} 0.00192 \\ \hline 2.240 \\ 4.140 \end{array}$

MODEL COMPONENT: WING-W 110 New Lightweight On	chileer .	the state of the s	
GENERAL DESCRIPTION: Orbiter 3 configuration pe		170-000139B	
Altn. Campared Forebody			•
NOTE: Same as W103 except Cuff, Airfoi	l, and Angle o	f Incidence	
Scale Model = 0.004	234	Carbared Foreld	
TEST NO.	DWG. NO. For	VL70-000139B	
DIMENSIONS:	FULL-SCALE	MODEL SCALE	
Area (Ineo.) Ft2 Planform Span (Theo In. Aspect Ratio Rate of Taper Taper Ratio Dihedral Angle, degrees Incidence Angle, degrees Aerodynamic Twist, degrees Sweep Back Angles, degrees Leading Edge Trailing Edge O.25 Element Line Chords: Root (Theo) B.P.O.O. Tip, (Theo) B.P. MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC	2690.00 936.68 2.265 1.177 0.200 3.500 0.500 ±3.000 -10.24 35.209 689.24 137.85 474.81 1136.89 299.20 182.13	0.04304 3.74672 2.265 1.177 0.200 3.500 0.500 +3.000 -10.24 35.209 2.75696 0.55140 1.89924 4.54756 1.19680 0.72832	
Area (Theo) Ft ² Span. (Theo) In. BP108 Aspect Ratio Taper Ratic Chords Root BP108 Tip 1.00 b MAC Fus. Sta. of .25 MAC W.P. of .25 MAC	1752.29 720.68 2.058 0.2451 562.40 137.85 393.03 1185.31 306.20 251.76	0.02804 2.88272 2.058 0.2451 2.2496 0.55140 1.57212 4.74124 1.20080 1.00704	
B.L. of .25 MAC Airfoil Section (Rockwell Mod NASA) XXXX-64 Root b = Tip b = Z Data for (1) of (2) Sides Leading Edge Cuff Planform Area Ft Leading Edge Intersects Fus M. L. @ Sta Leading Edge Intersects Wing @ Sta	.10 .12 118.333 500 1083.4	.10 .12 0.00189 2.0 4.3336	

TABLE III. (CONTINUE)			
MODEL COMPONENT: WING-W 105 New Lightweight Orbiter			
GENERAL DESCRIPTION: Orbiter 3 Configuration			
NOTE: W105 identical to W103 except 500	in. radious	used to	
connect cuff to wing.		····	
Scale model = 0.004			
TEST NO.	DWG. NO. VL70	0-000139 MOD	
DIMENSIONS:	FULL-SCALE	MODEL SCALE	
Area (ineo.) Ft2 Planform Span (Theo In. Aspect Ratio Rate of Taper Taper Ratio Dihedral Angle, degrees Incidence Angle, degrees Aerodynamic Twist, degrees Sweep Back Angles, degrees Leading Edge Trailing Edge 0.25 Element Line Chords: Root (Theo) B.P.O.O. Tip, (Theo) B.P. MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC	2690.00 936.68 2.265 1.177 0.200 3.500 3.000 +3.000 -10.24 35.209 689.24 137.85 474.81 1136.89 299.20 182.13	0.04304 3.74672 2.265 1.177 0.200 3.500 3.000 +3.000 -10.24 35.209 2.75696 0.55140 1.89924 4.54756 1.19680 0.72852	
EXPOSED DATA Area (ineo) Ft ² Span, (Theo) In. BP108 Aspect Ratio Taper Ratio	1752.29 720.68 2.058 0.2451	7.00916 2.88272 2.058 0.2451	
Chords Root BP108 Tip 1.00 b MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC Airfoil Section (Rockwell Mod NASA)	562,40 137.85 393.03 1185.31 300.20 251.76	2.24960 0.55140 1.57212 4.74124 1.20008 1.00704	
Root $\frac{b}{2}$ Tip $\frac{b}{2}$.10	.10	
Data for (1) of (2) Sides Leading Edge Cuff Planform Area Ft Leading Edge Intersects Fus M. L. 0 Sta Leading Edge Intersects Wing 0 Sta	122.67 569.50 1135.4	0.00196 2.2780 4.54160	

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MODEL COMPONENT: F5 Body I	Flap)
GENERAL DESCRIPTION: 3 confid VL70-000139	guration per Rockwe' li	nes
Scale Model = 0.004		
DRAWING NUMBER V	L70-000139	
DIMENSION:	FULL SCALE	MODEL SCALE
Length ~ IN.	84.70	0.33880
Max Width ~ IN.	267.6	1.07040
Max Depth		
Fineness Ratio		
Area~Ft ²		
Max Cross-Sectional		
Planform	142.5195	0.00228
Wetted		
Base	38.0058	0.15238

MODEL COMPONENT: Body	Flap - F6	· · · · · · · · · · · · · · · · · · ·	
GENERAL DESCRIPTION: BO	dy Flap for	configuration	3,
per lines VL70-000139B			
NOTE: Flap adjustable	from -32.5°	to +13.75"	
MODEL SCALE = .004			
DRAWING NUMBER .			
DIMENSION:		FULL SCALE	MODEL SCALE
Length in.		107.0	0.4280
Max Widthain.		267.6	1.0704
Max Depth			
Fineness Ratio			
Areo∼ Ft ²			
Max Cross-Sectional			
Planform .		174.55	0,00279
Wetted			
Base		38.0958	0.0006

MODEL COMPONENT: Elevon E-22			٠,
GENERAL DESCRIPTION: 3 configuration per	W103 Rockwell	lines	
VL70-000139 data for (1) of (2) sides	3		
Scale Model = 0.004			
DRAWING NUMBER: VL70-000139			
DIMENSIONS:	FULL-SCALE	MODEL SCALE	
Area ~ FT ²	_205.52	0.00329	
Span (equivalent) IN.	353.34	1.41336	
Inb'd equivalent chord	114.78	0.45912	
Outb'd equivalent chord	55.00	0.220	
Ratio movable surface chord/ total surface chord			
At Inb'd equiv. chord	.208	.208	
At Outb'd equiv. chord	.400	.400	
Sweep Back Angles, degrees	,	·	
Leading Edge	0.00	0.00	
Tailing Edge	-10.24	-10.24	
Hingeline	0.00	0.00	
Area Moment (Normal to hinge line) FT3	1548.07	0.00010	

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W107 Rockwell	lines
sides	
FULL-SCALE	MODEL SCALE
205,52	0.003288
353.34	1.41336
114.78	0.45912
55.00	0.220
.208	.208
.400	.400
•	
0.00	0.00
-10.24	-10.24
0.00	0.00
0.00	
1548.07	0.00010
	FULL-SCALE 205,52 353.34 114.78 55.00 .208 .400

MODEL COMPONENT: OMS POD	- M4
	no podkyol 1
GENERAL DESCRIPTION: 3 Lights	weight configuration per Rockwell
Lines VL70-000139	
Scale Model = 0.004	
DRAWING NUMBER VL	.70-000139
DIMENSION:	FULL SCALE MODEL SCALE
Length ~ IN.	346.0 1.3840
Max Width ~ IN.	108.0 0.4320
Max Depth ~ IN.	113.0 113.0
Fineness Ratio	
Area	
Max Cross-Sectional	
Planform	
Wetted	
Base	·
D of OMS Pod	
WP = 463.9 INFS: WP400 + 63	.9 = 463.9
DD - 00 0 INFS	

NOTE: M4 identical to M3 of 2A configuration except intersection to body

Length 1214.0 to 1560.0 = 346.0 INFS

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MODEL COMPONENT: Trimmer - H ₁₉		
GENERAL DESCRIPTION: Trimmer for Confi	guration 3,	per
lines VL70-000139B		
NOTE: Data for one (1) Side Only		
MODEL SCALE = .004		-
DRAWING NUMBER		
DIMENSION:	FULL SCALE	MODEL SCALE
Length ~ in.	222.5	0,890
Max Width ~ in.	66.25	0.265
Max Depth		
Fineness Ratio		
Area ∼Ft ²		
Max Cross-Sectional		
Planform ·	55.21	0.000884
Wetted		
Base		
Included Angle ~ Deg	17.64	17.64
Leading Edge intersects Fuse@ sta.	548.0	2.192
Trailing Edge intersects Fuse @ sta.	748.8	2.995

MODEL COMPONENT: Trimmer H ₂₀		And the second s
	configuration 3, p	er lines '
VL70-000139B		
Model Scale = .004		
DRAWING NUMBER		
DIMENS ON:	FULL SCALE	MODEL SCALE
Length ~ In.	204.5	0.818
Max Width ~ In.	42.125	0.1685
Max Depth		
Fineness Ratio		
Area ~ Ft ²		
Max Cross-Sectional		
Planform .	23.74	0.00038
Wetted		
Base		
Included Angle \sim deg	8.95	8.95
Leading Edge intersects Fuse @ sta.	560.75	2.243
Trailing Edge intersects Fuse @ sta.	765.25	3.061

MODEL COMPONENT: Trimmer - H22		
GENERAL DESCRIPTION: Trimmer for con	figuration 3, f	or lines
NOTE: Data for one (1) side only		
MODEL SCALE004		
DRAWING NUMBER		
DIMENSION:	FULL SCALE	MODEL SCALE
Length ~ in.	137.12	0.5485
Max Widthain.	61.75	0.247
Max Depth		
Fineness Ratio		
AreonFt.		
Max Cross-Sectional		
Planform	32.745	0.000524
Wetted		
Base		
Included Angle ~ deg	28.2	28.2
Leading Edge intersects Fuse 0 sta.	433.62	1.7345
Trailing Edge intersects Fuse @ sta.	570.75	2.283

MODEL COMPONENT: Trimmer - H ₂₃		
GENERAL DESCRIPTION:	guration 3, p	er lines
MODEL SCALE = ,004		
DRAWING NUMBER		
DIMENSION:	FULL SCALE	MODEL SCALE
Length \sim in. (0 $B_0 = 331$)	96.5	0.386
Max Width vin.	46.12	0.1845
Max Depth		
Fineness Ratio		
Area ~ Ft ²		
Max Cross-Sectional	-1 005	0.000341
Planform	21.285	0.000341
Wetted		
Base		
Included Angle \sim deg	36.12	36.12
Leading Edge intersects Fus @ st	a. 280.38	1.1215
Trailing Edge intersects Fus @ sta.	376.87	1.507

TABLE III. (CONCLUDED)

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MODEL COMPONENT: Spoiler - 81		
	•	
GENERAL DESCRIPTION: Spoiler for	configuration 3,	lines
drawing VL70-000139.		
NOTE: Data for (1) side only		
MODEL SCALE = .004		
DRAWING NUMBER .	•	
DIMENSION:	FULL SCALE	MODEL SCALE
Length \sim in.	250.0	1.0
Max Width~in.	25	0.10
Max Depth∼ in.	25	0.10
Fineness Ratio		
Areo $\sim ft^2$		
Max Cross-Sectional	4.34028	0.00007
Planform		
Wetted		
Base		

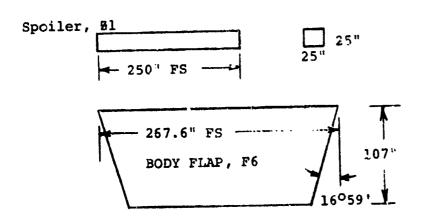
NCTE: Located on W_{103} , 50 in. FS from and parallel to the leading edge. In board end of spoiler is 109.375 in. FS from outer moldline ($Y_0 = 217.375$)

TABLE IV. AUXILIARY SURFACE CONFIGURATIONS

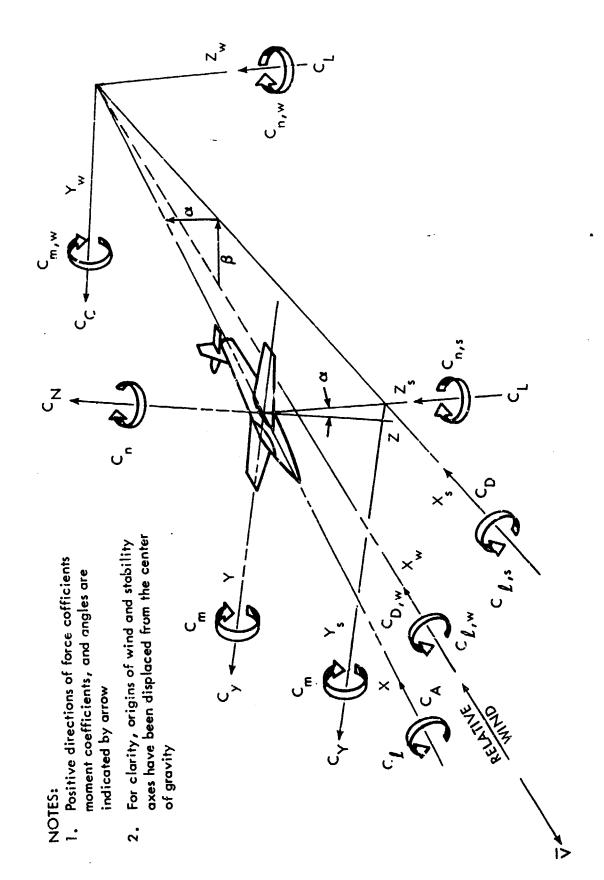
TRIMMERS

I KIIM IDKO				
NO.	PLANFORM (Included (Radius, FB)	Sexposed FT ² , FS (one side)	INCI- BENCE ANGLE	MOUNTING LOCATION (Body Station*)
H19	17.63° 227.3"	55.2	Same as Glove L.E.	Glove Apex X _O = 548.0
н20	8.95° 209.2"	23.74	Same as Glove L.E.	Glove Apex X _O = 560.75
H22	28.20	32.75	00	Forward Body X _O = 433.6 B _O = 408.25
н23	36.12° 98.6"	21.28	⁰ °	Nose x _o = 280.4 g _o = 331.0

*L.E. Intersection with Fuselage



Spoiler located parallel to and 50" behind L.E. of wing Wl03 with inboard end at $Y_0 = 217.375$



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Figure 1. - Axis Systems.

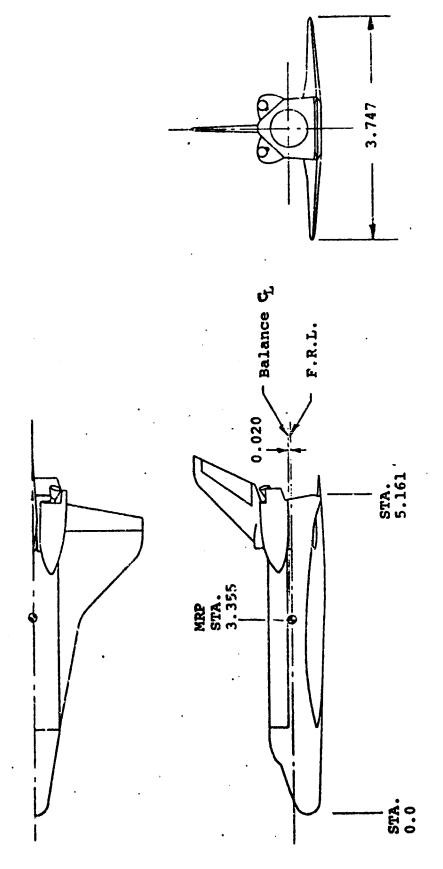
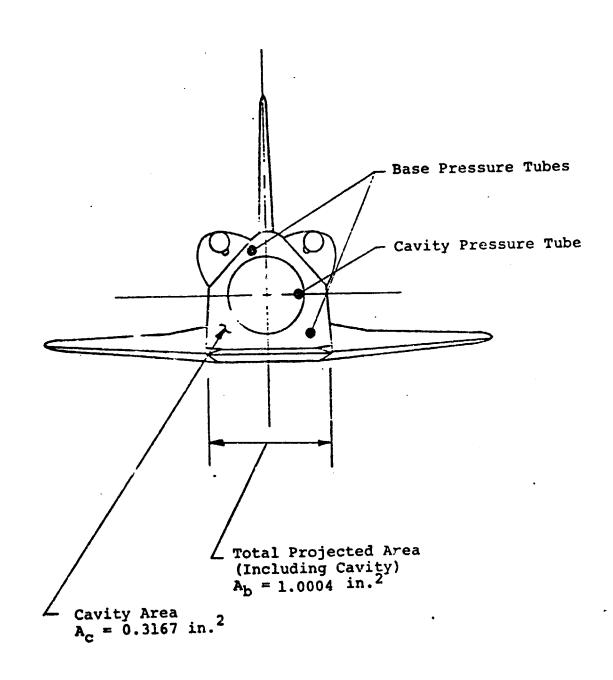


Figure 2. - General Arrangement of Orbiter Model.



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Figure 3. - Definition of Base and Cavity Areas and Pressure Tube Locations.

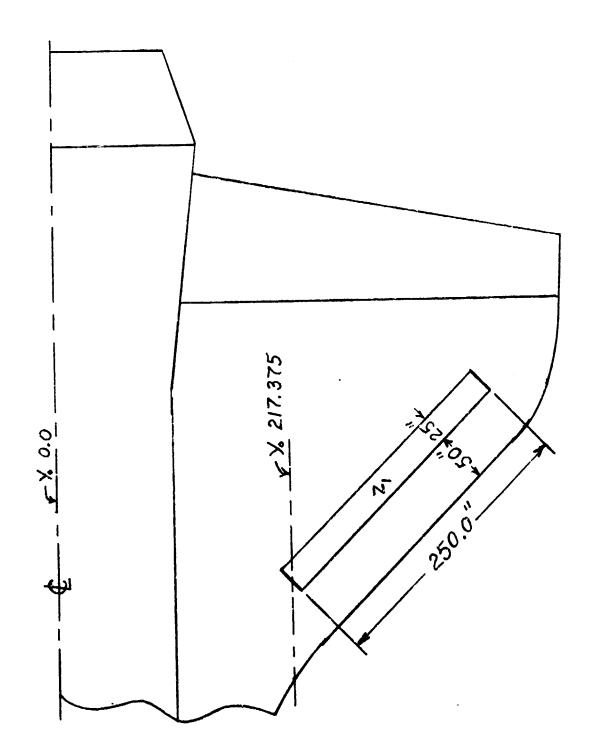
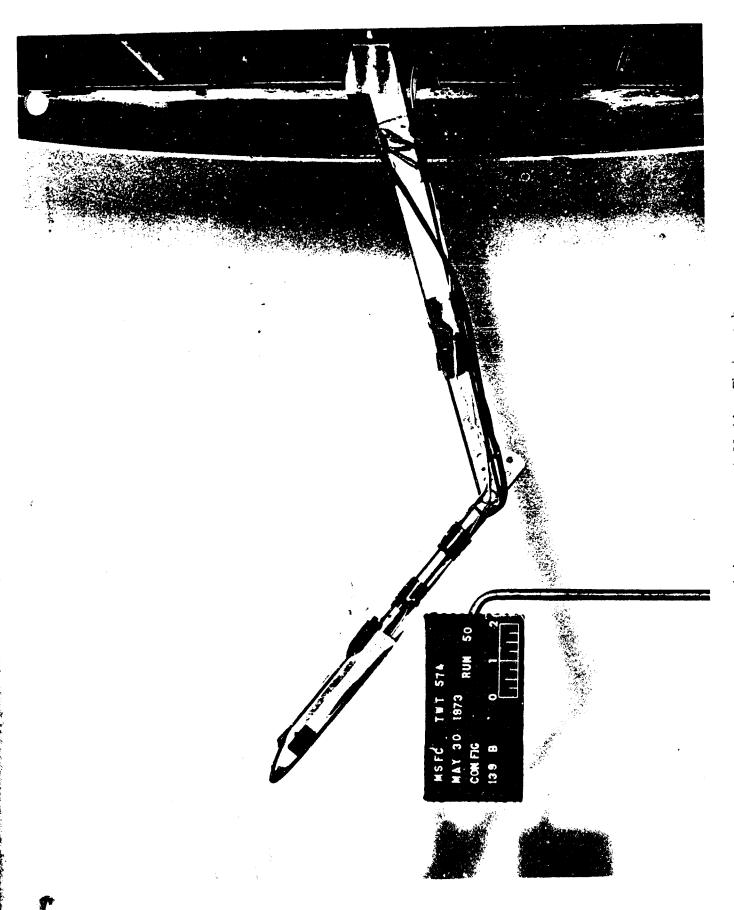
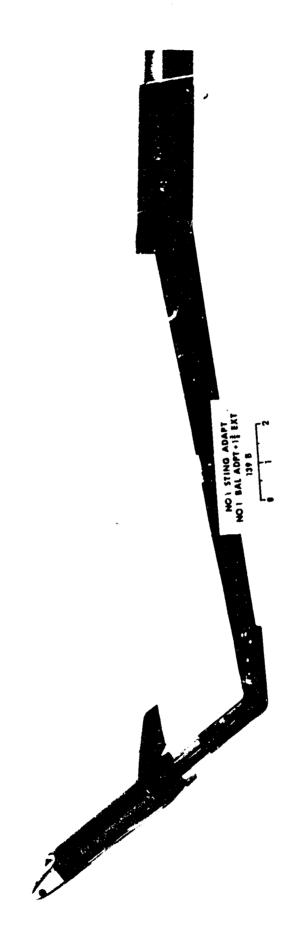


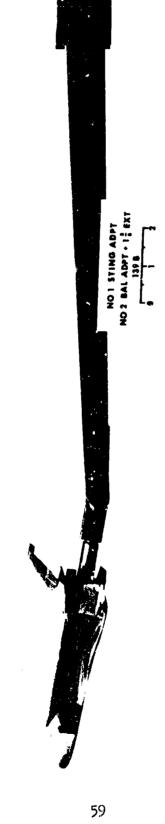
Figure 4. - Location of Spoiler Zl on Upper Surface of Orbiter Wing W103.



(a) Tunnel Installation Photograph Figure 5. - Configuration 139B.



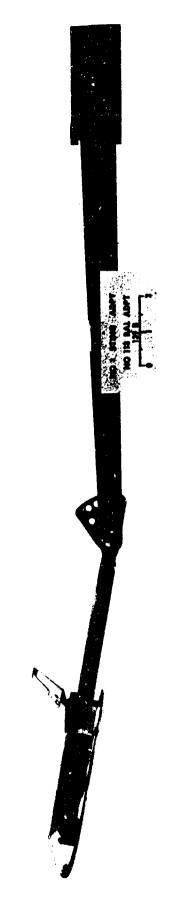
(b) No. 1 Sting Adapter, No. 1 Balance AdapterFigure 5. - Continued.



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(c) No. 1. Sting Adapter, No. 2 Balance Adapter Figure 5. - Continued.



(d) No. 1 Sting Adapter, No. 113 Balance Adapter Figure 5. - Concluded.

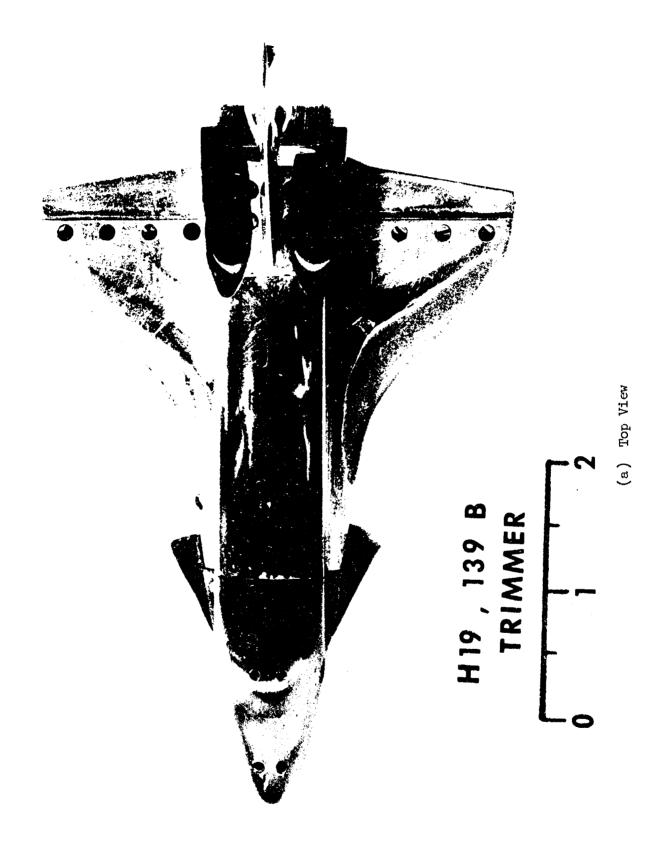
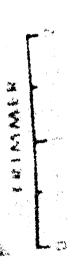


Figure 6. - Configuration 139B - H19 Trimmer.





(b) Top Oblique View
Figure 6. - Concluded.

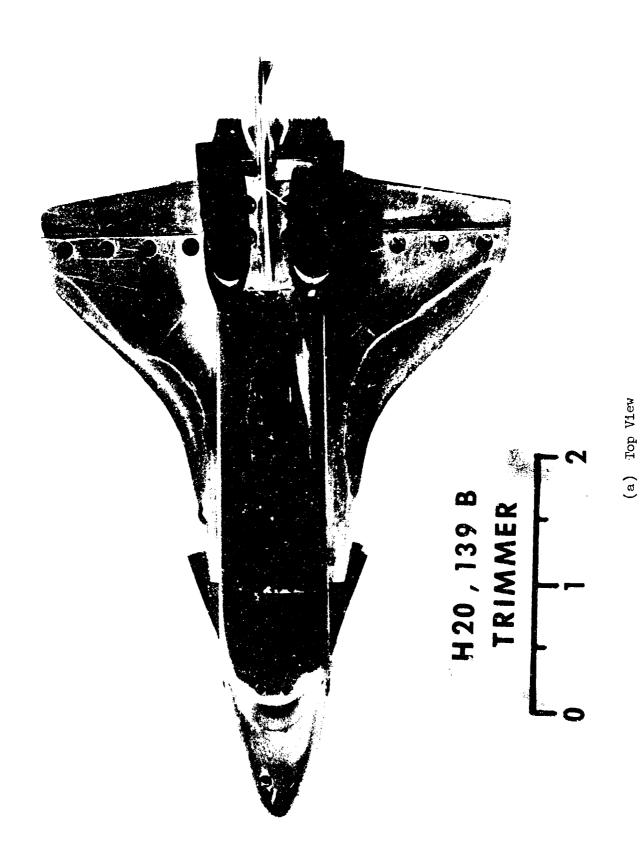
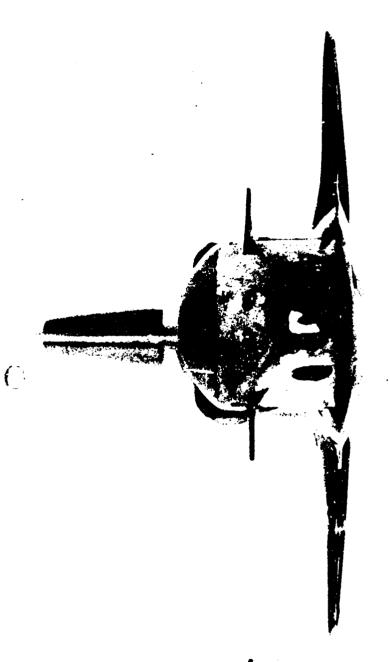


Figure 7. Configuration 139B - H20 Trimmer.



(b) Top Oblique View
Figure 7. - Concluded.

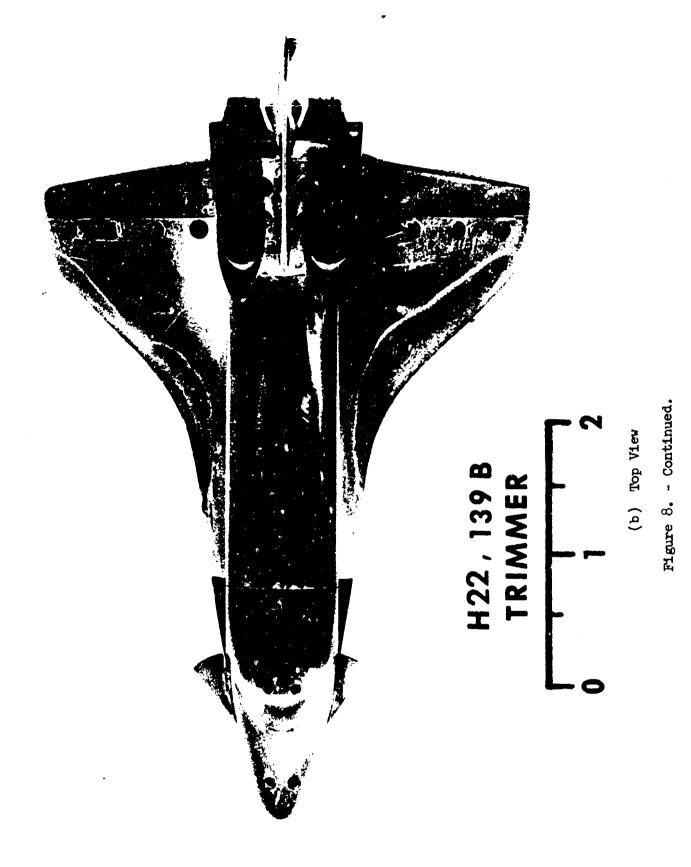


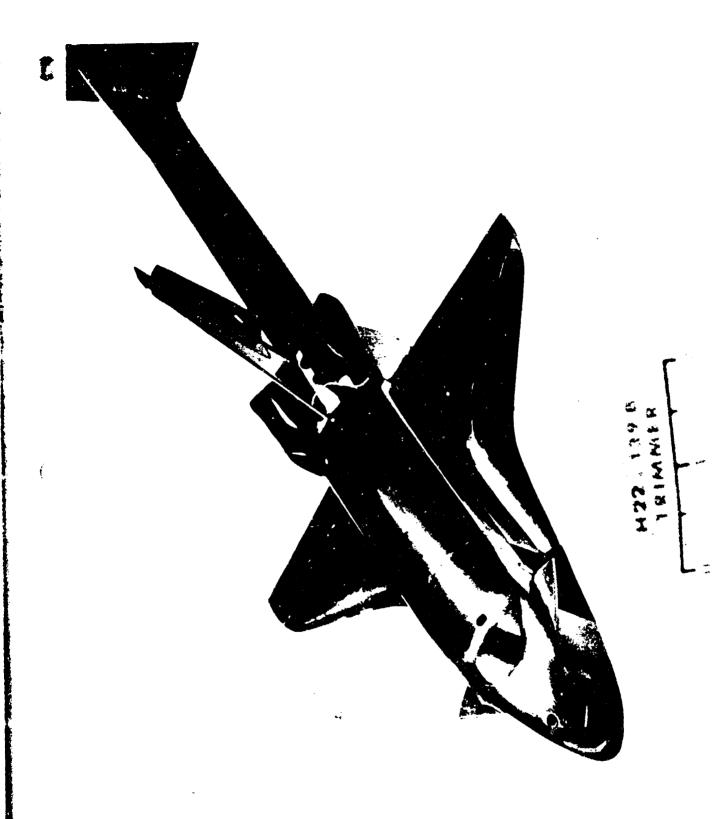
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H22, 139 B TRIMMER



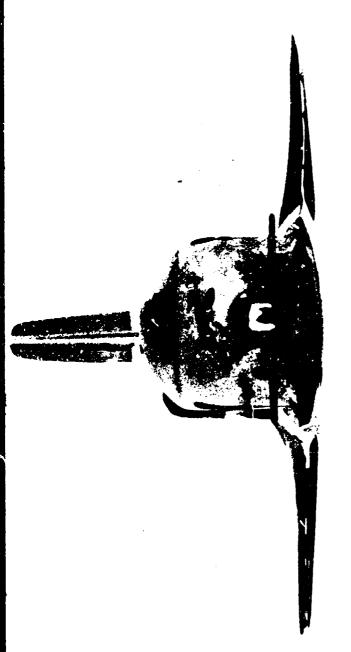
Figure 8. - Configuration 139B - H22 Trimmer





(c) Top Oblique View

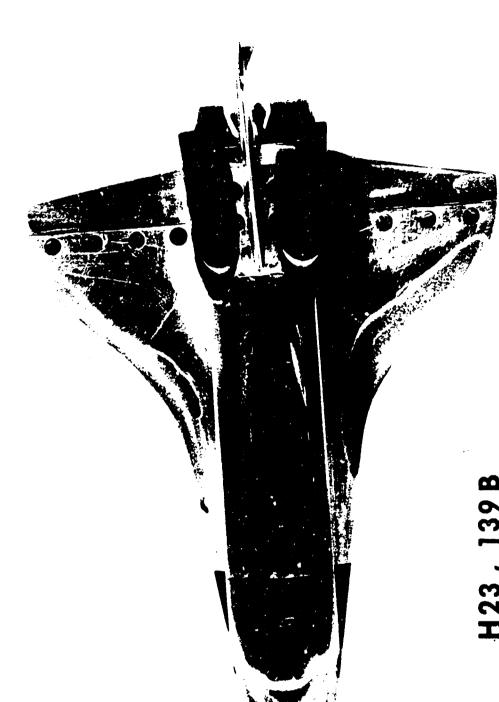
Figure 8. - Concluded.



H23, 139B

(a) Front View

Figure 9. - Configuration 139B - H23 Trimmer.



<u>(</u>)

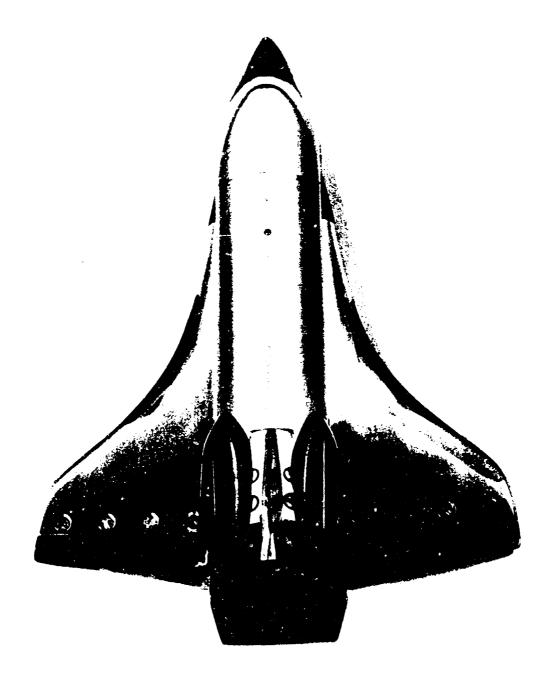
H23, 139B TRIMMER (b) Top View

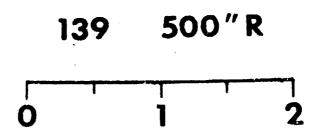
Figure 9. - Continued.



(c) Top Oblique View

Figure 9. - Concluded.





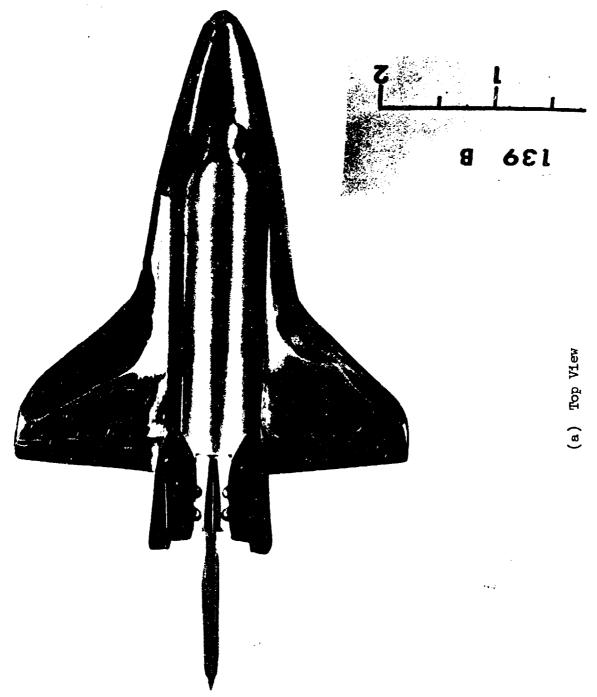
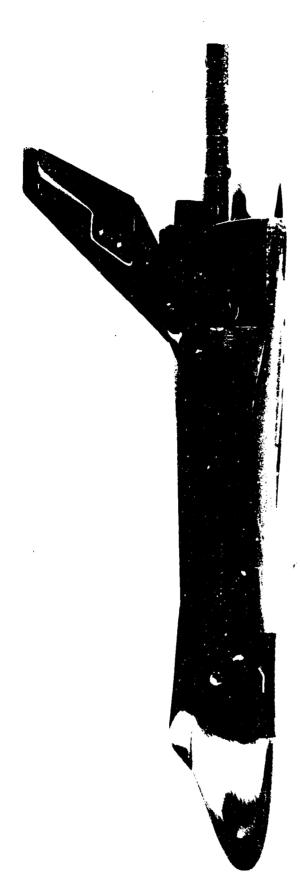
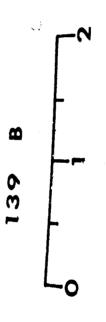


Figure 11. - Configuration 139B.





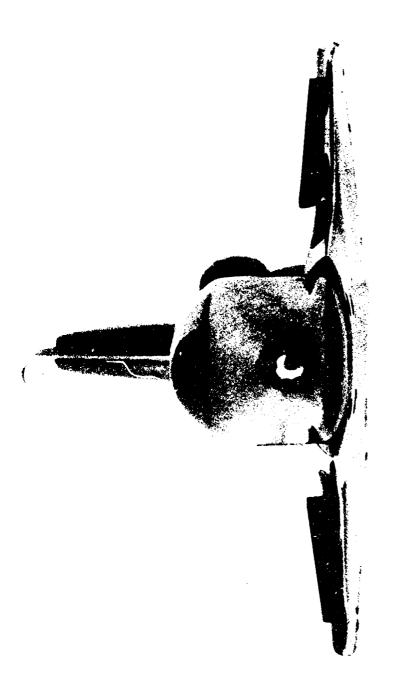
(b) Side View

Figure 11. - Concluded.



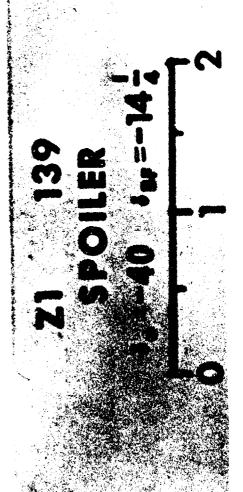


Fig. - Configuration 139B With Alternate Nose.



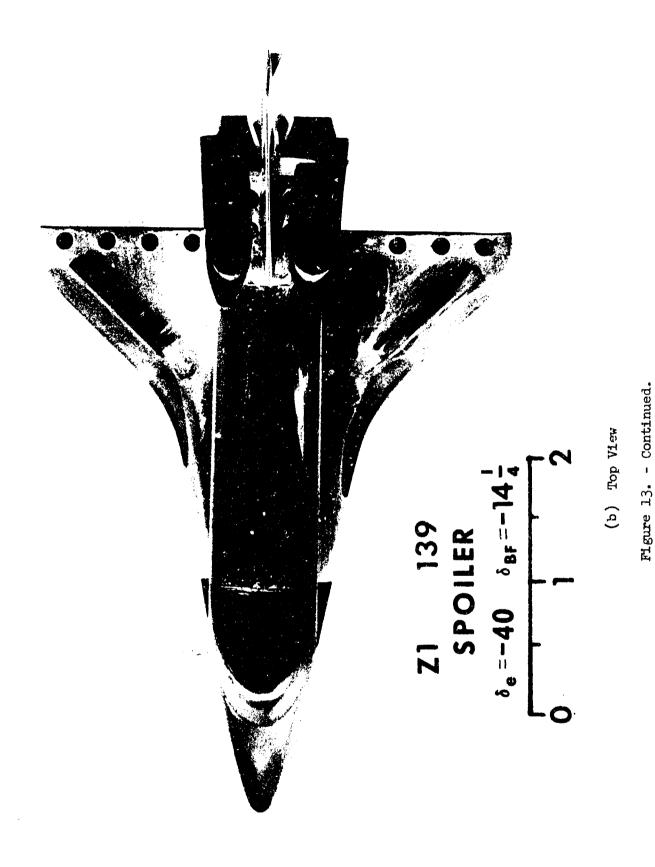
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(a) Front View

Figure 13. - Configuration 139 - Zl Spoiler.





(c) Top Oblique View

Figure 13. - Concluded.





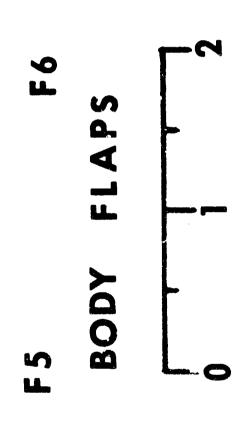
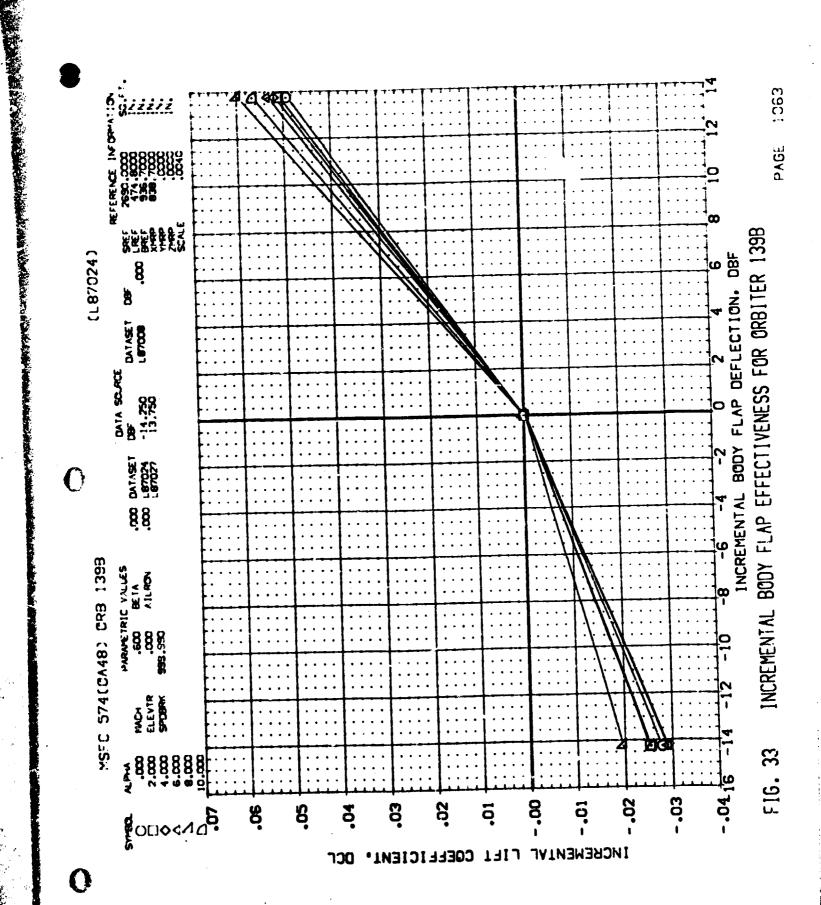
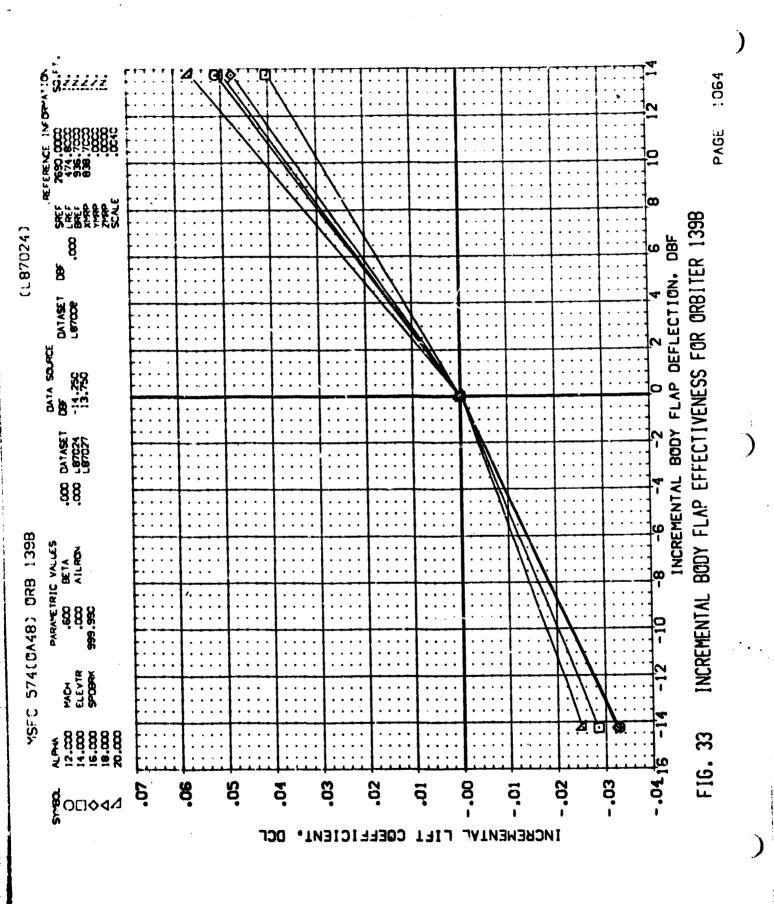


Figure 14. - Body Flaps - F_5 and F_6 .

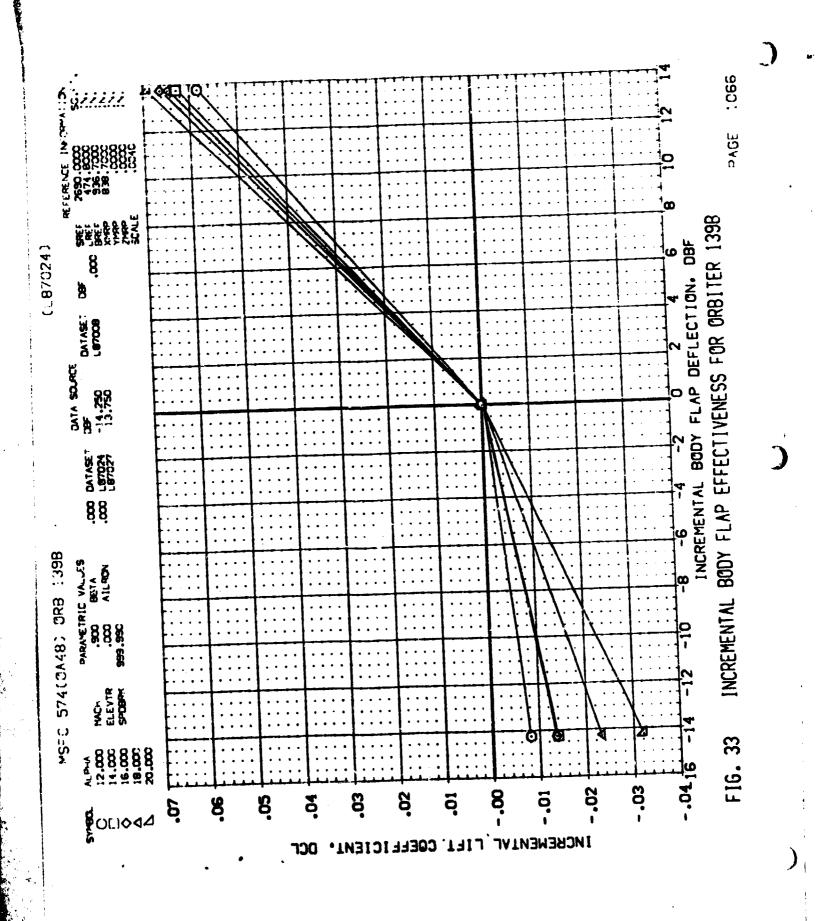
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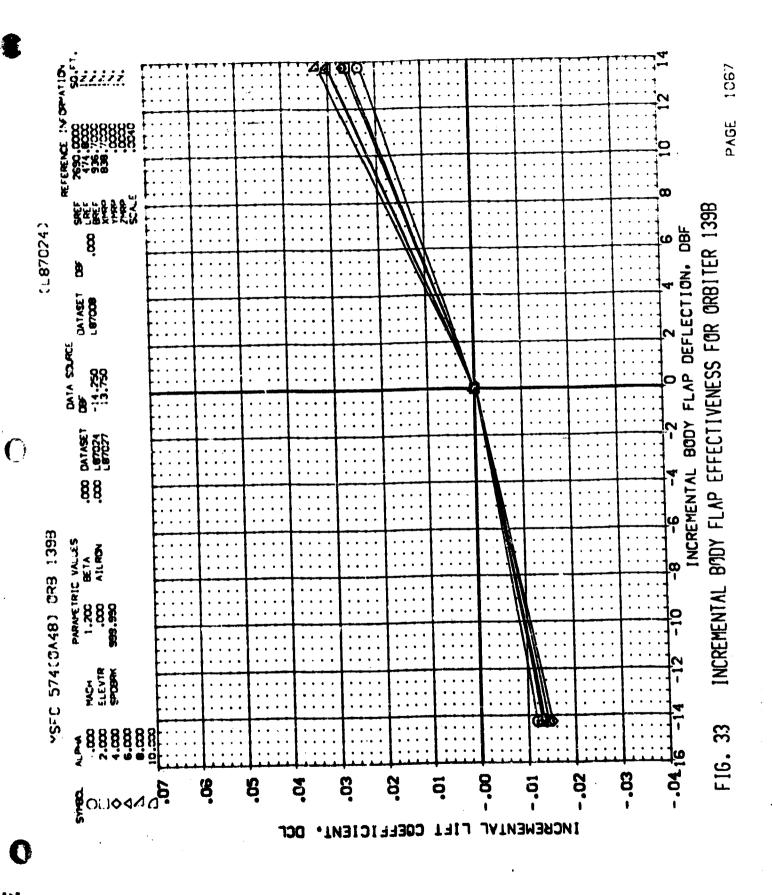
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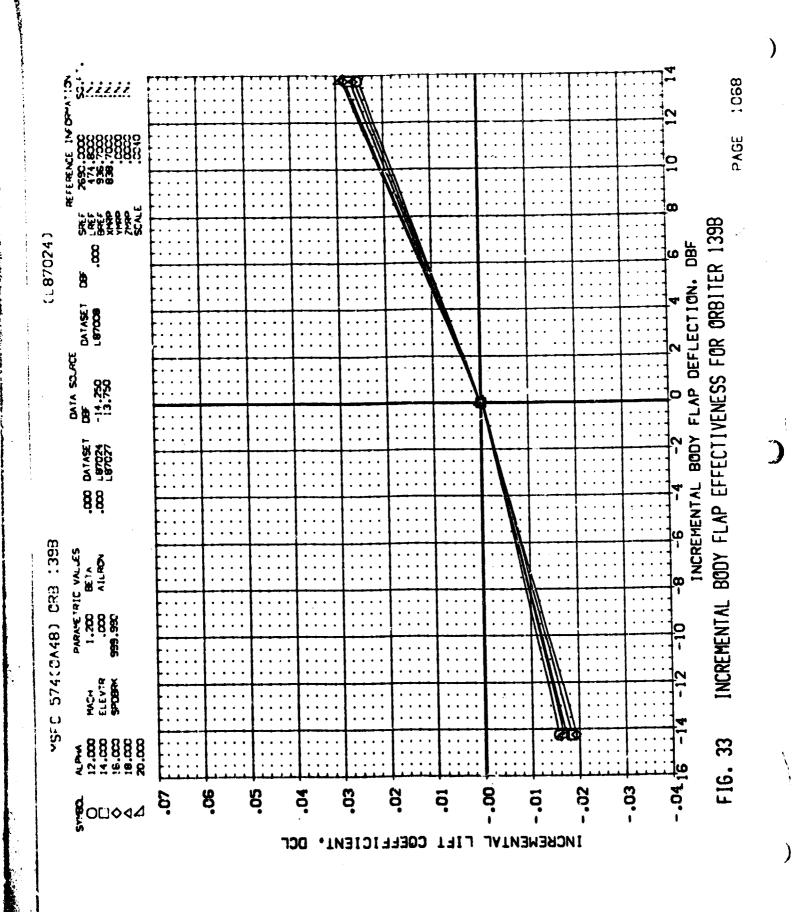


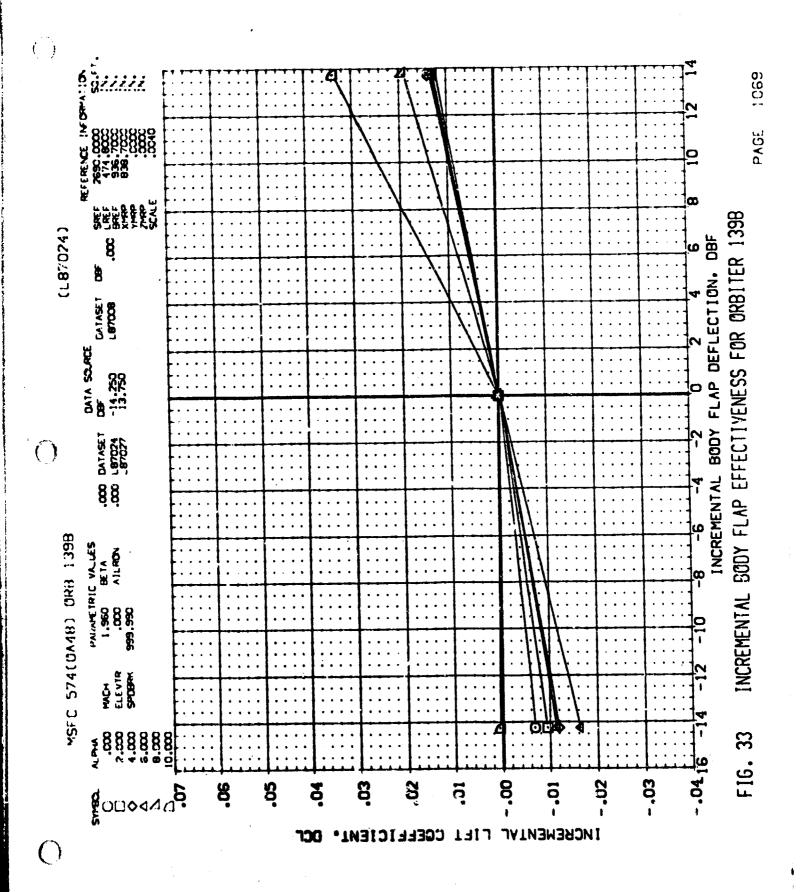


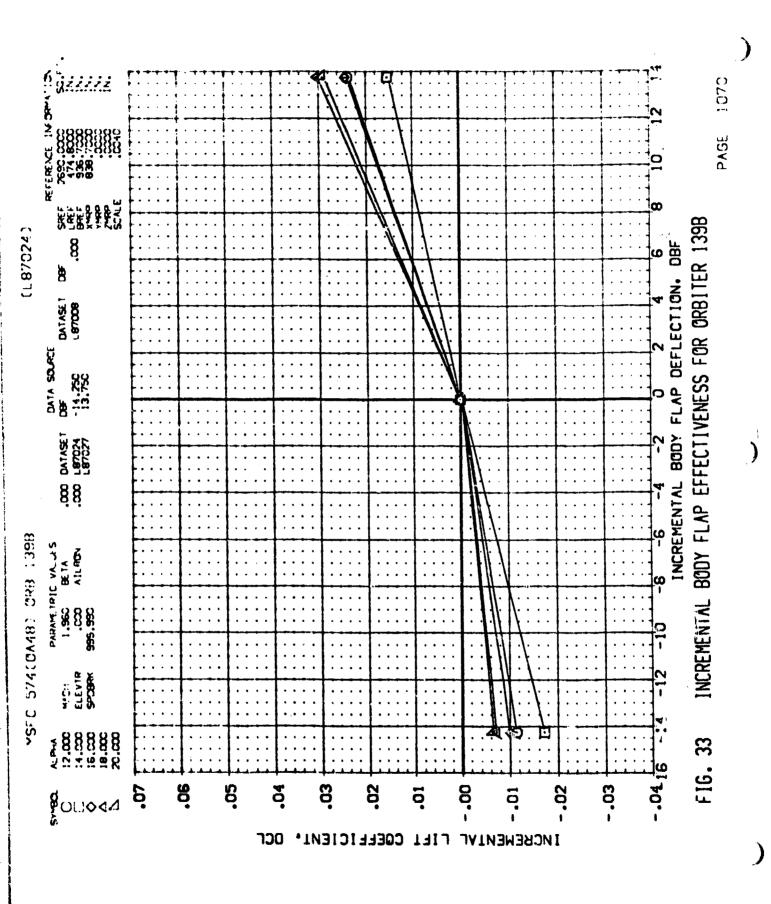
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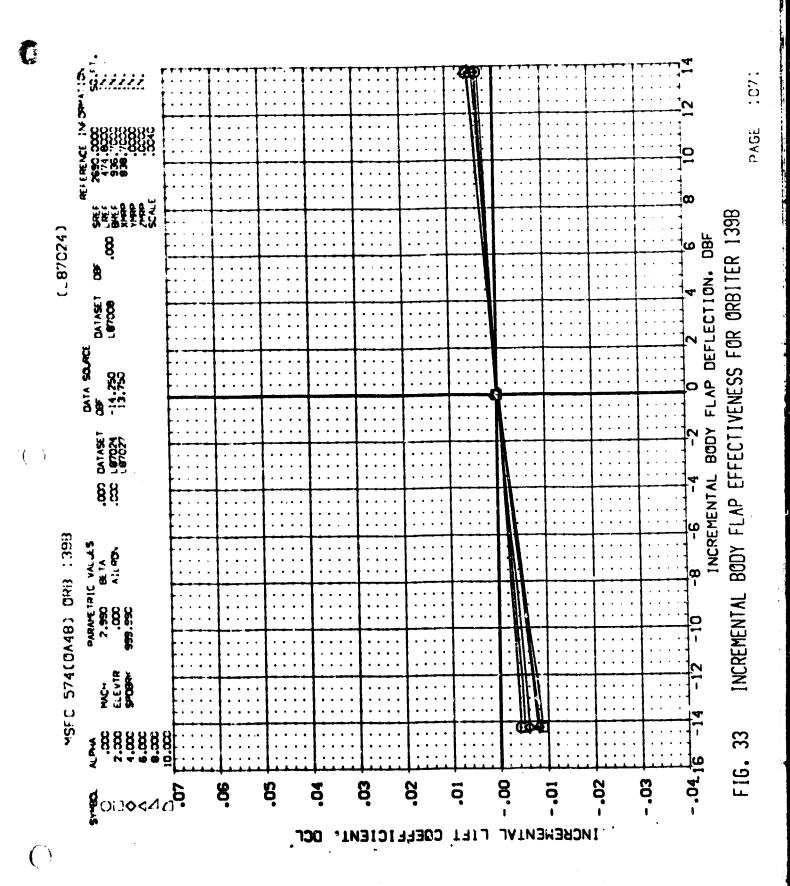


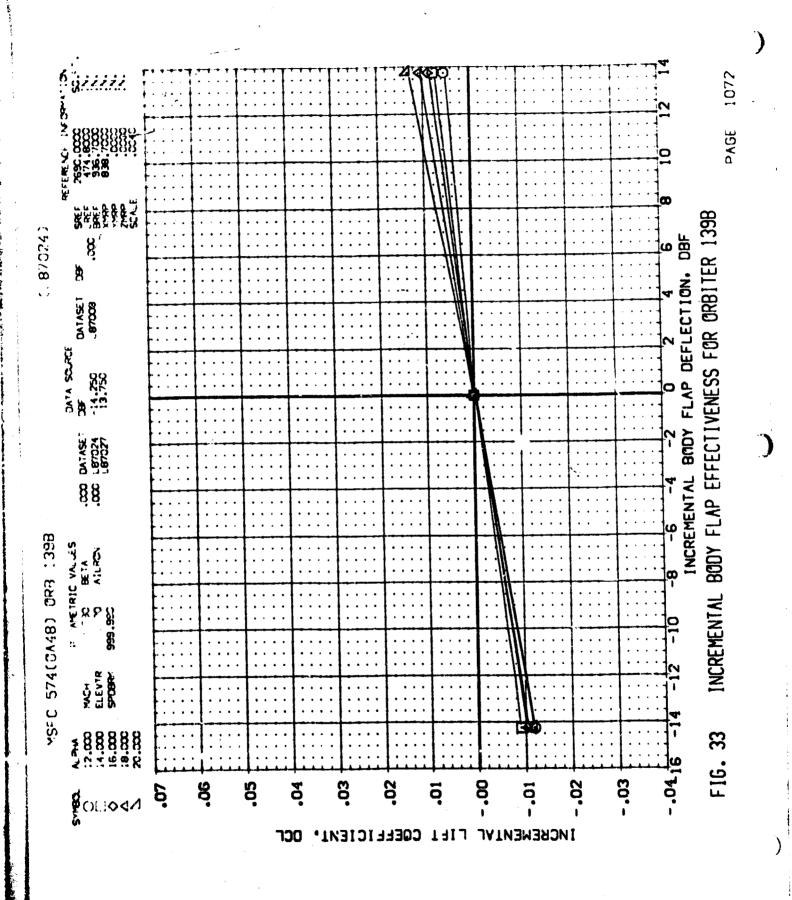


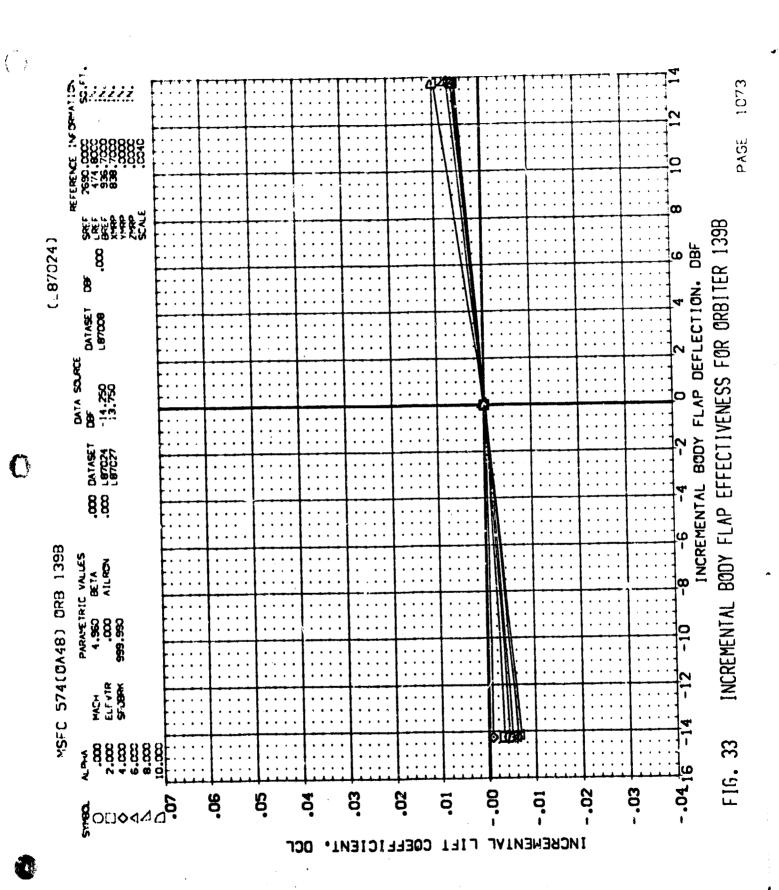


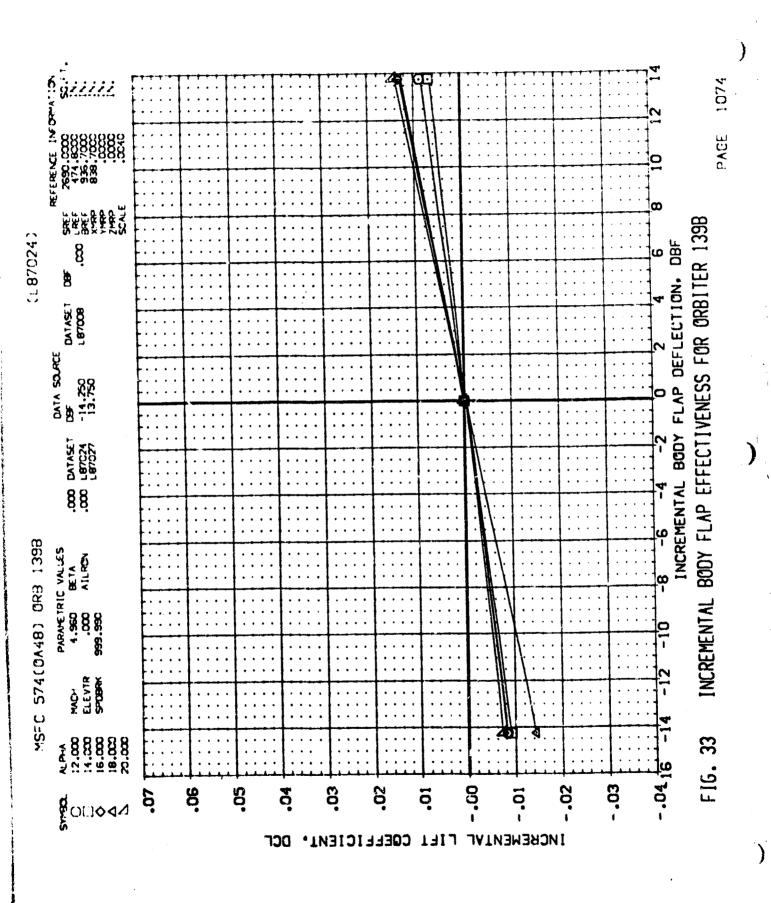


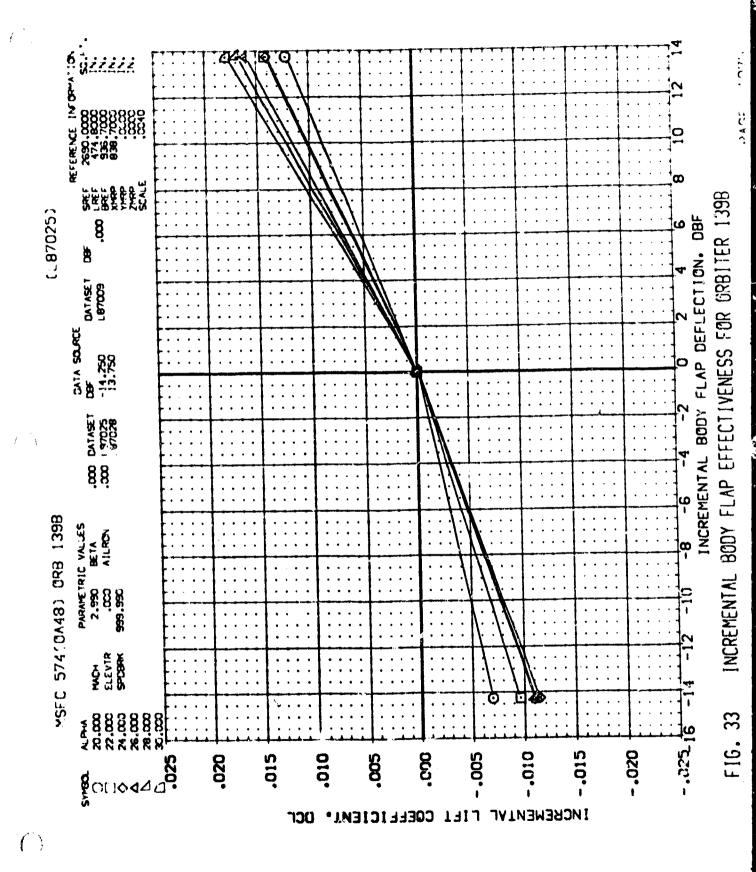


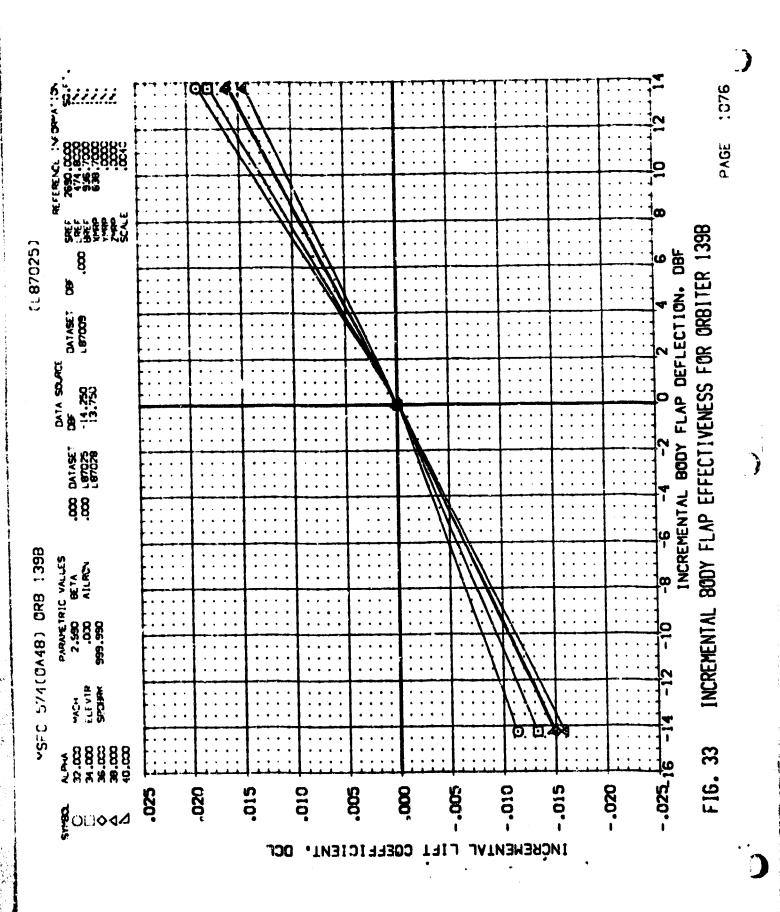




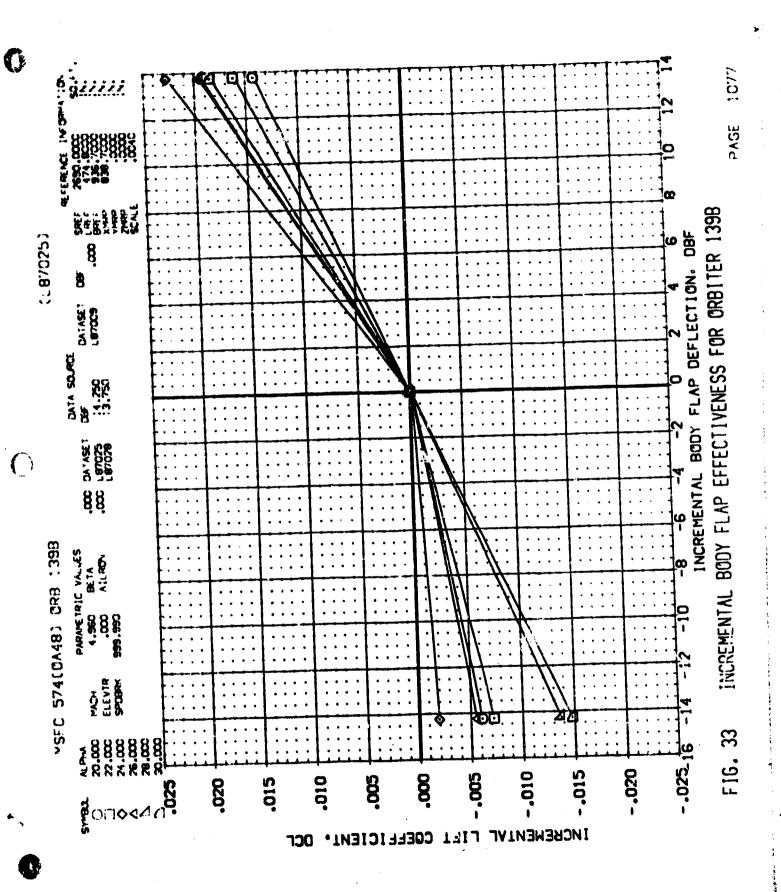


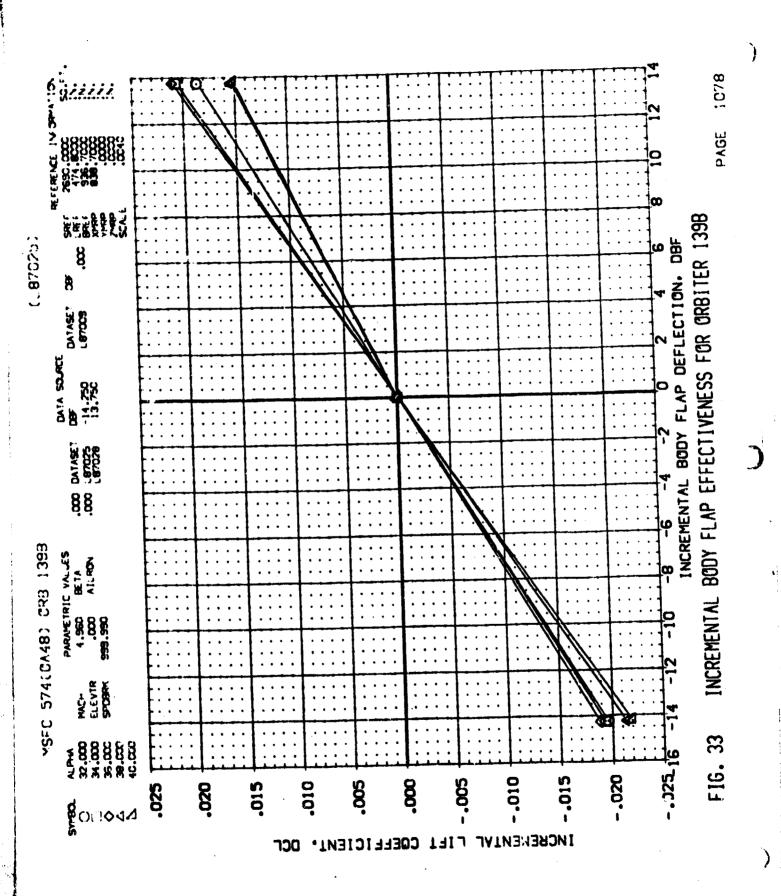


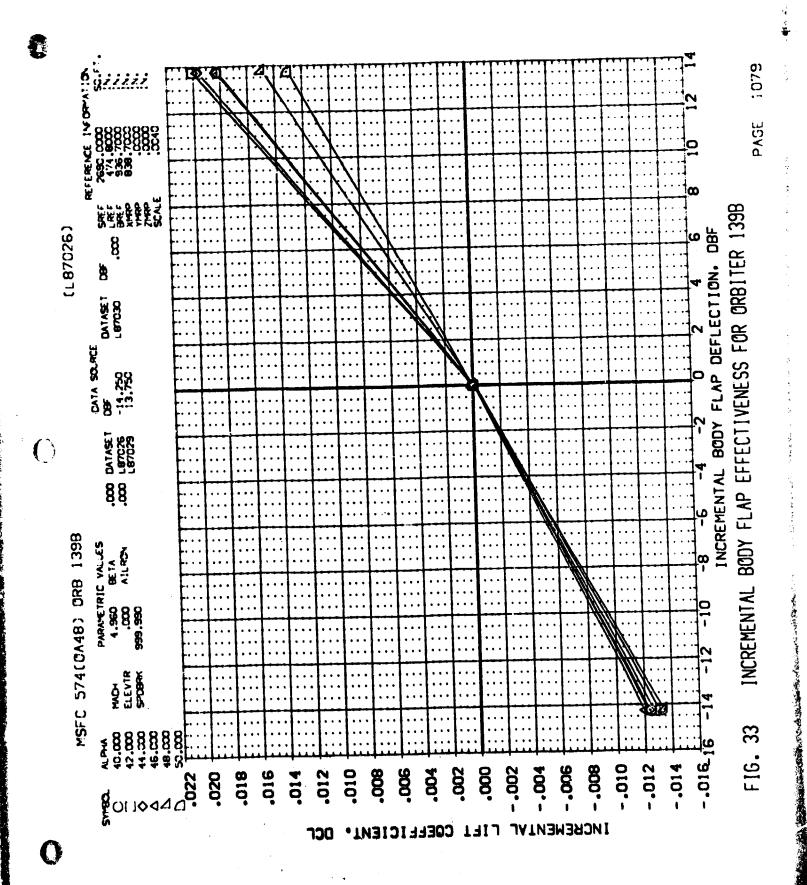


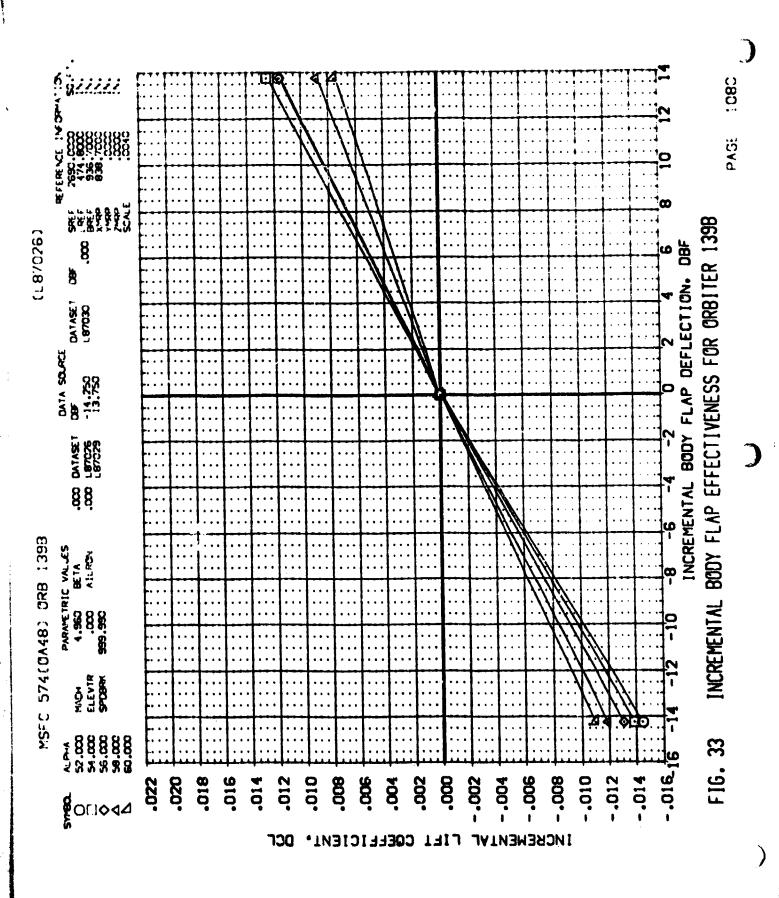


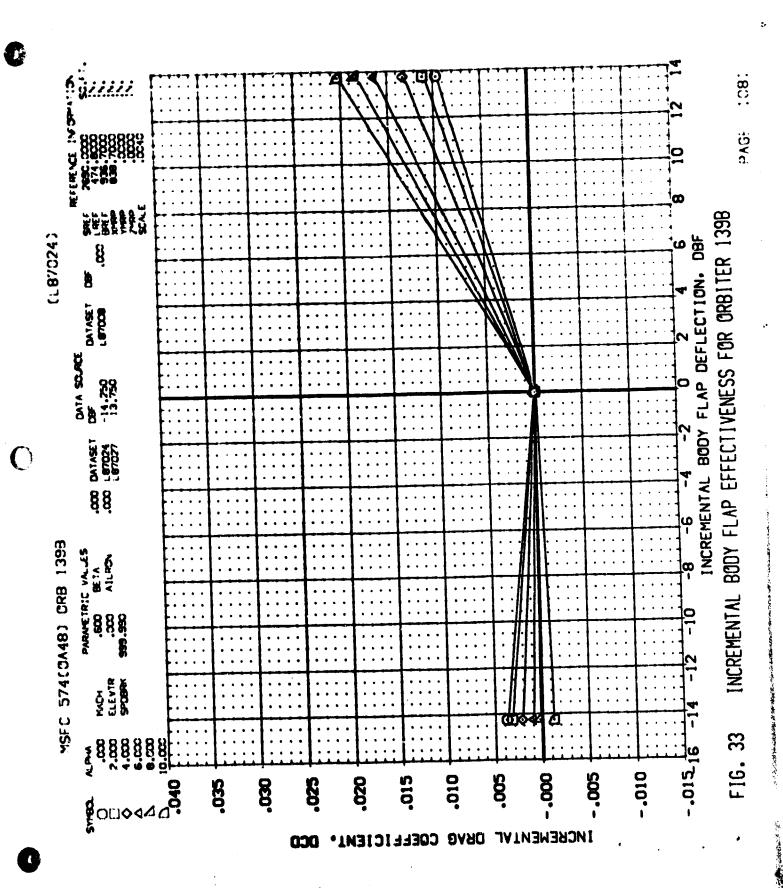
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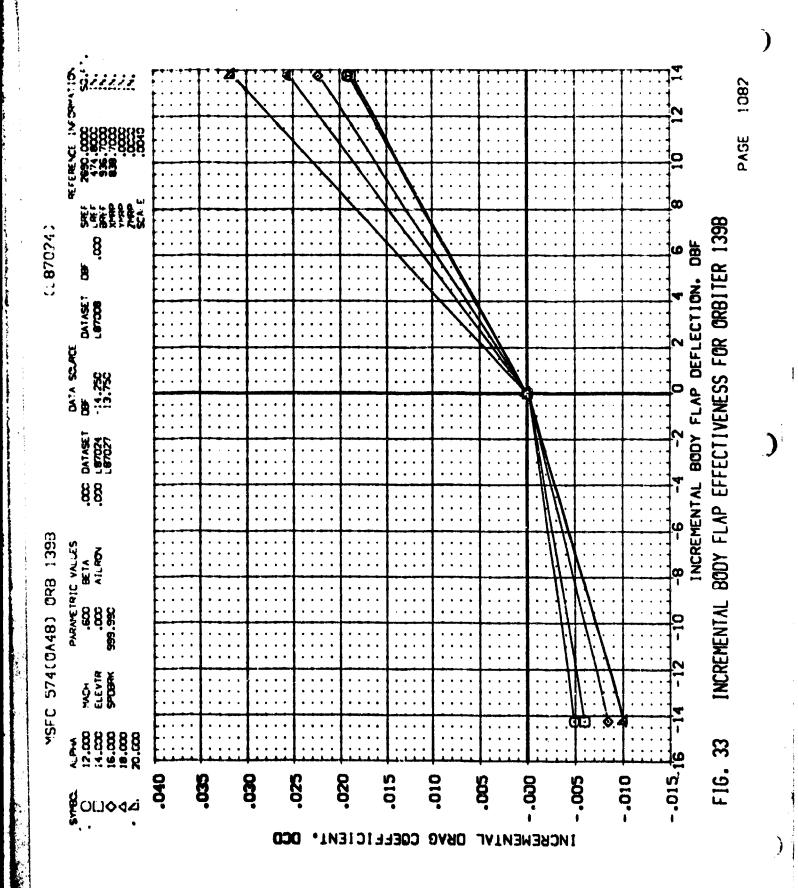


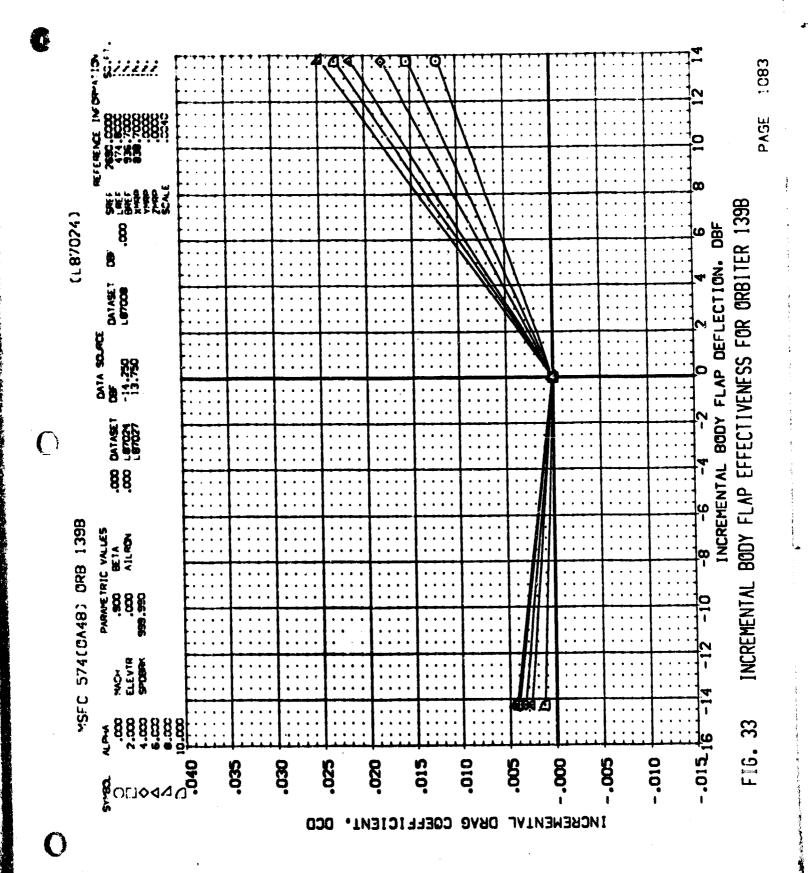


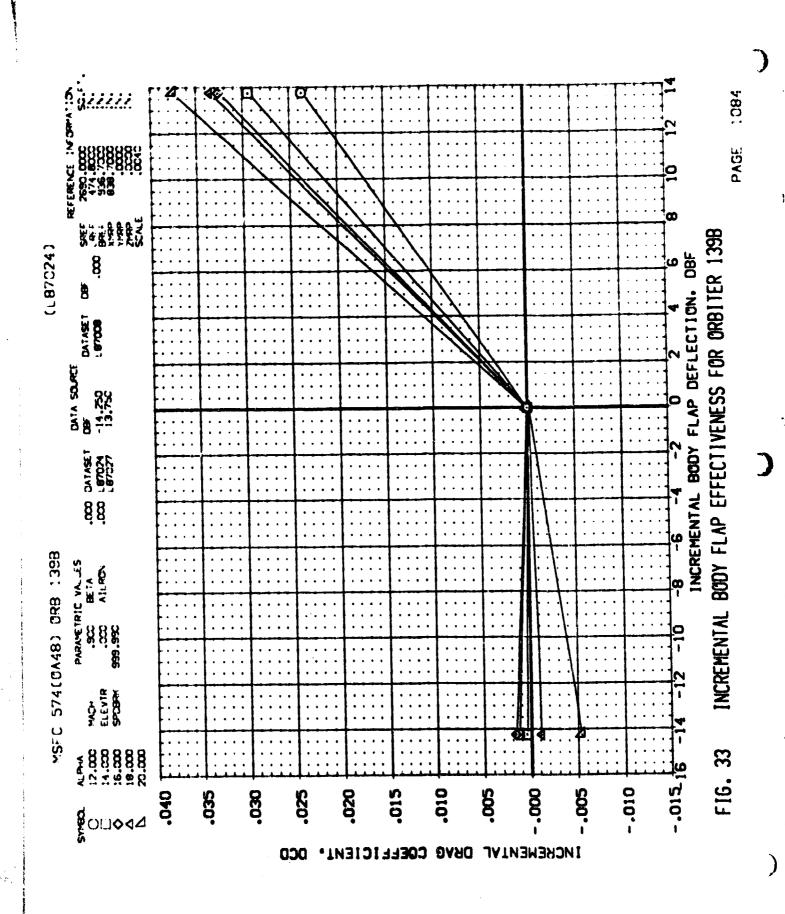


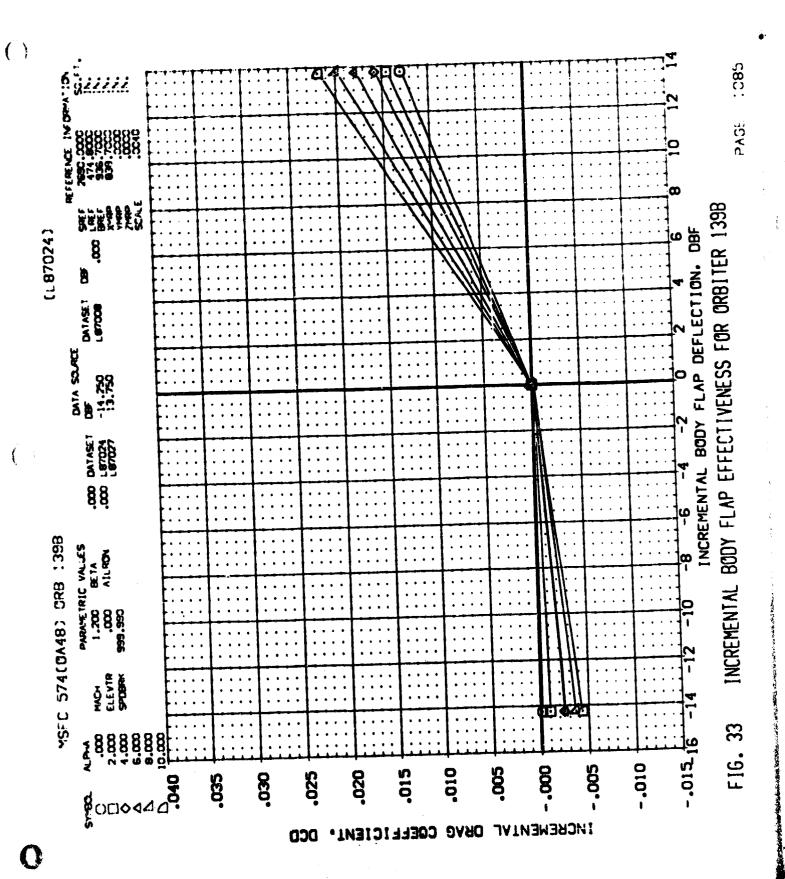


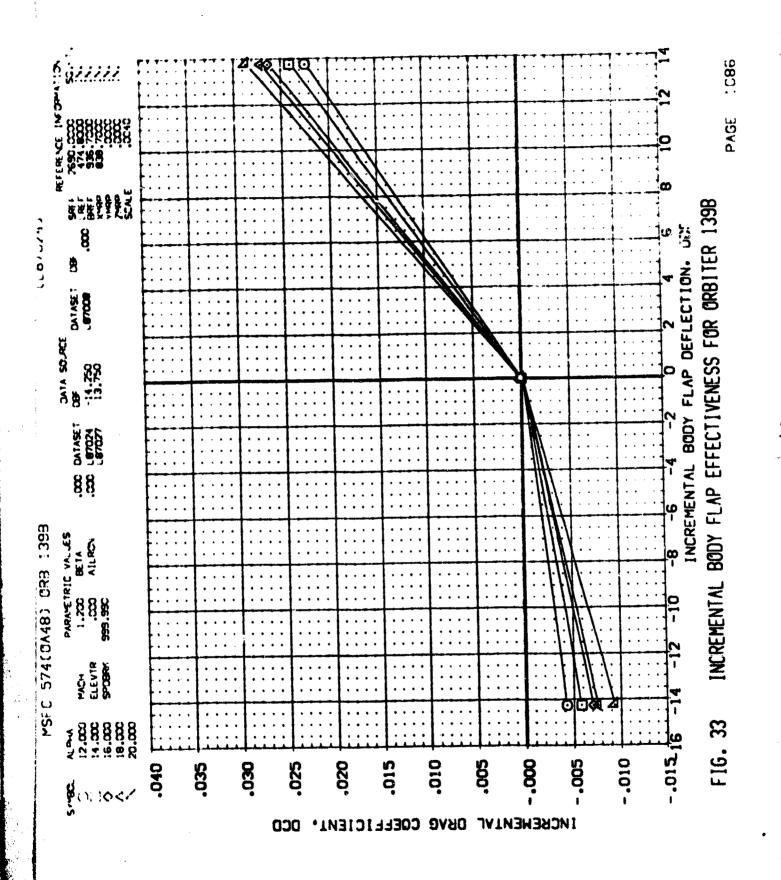


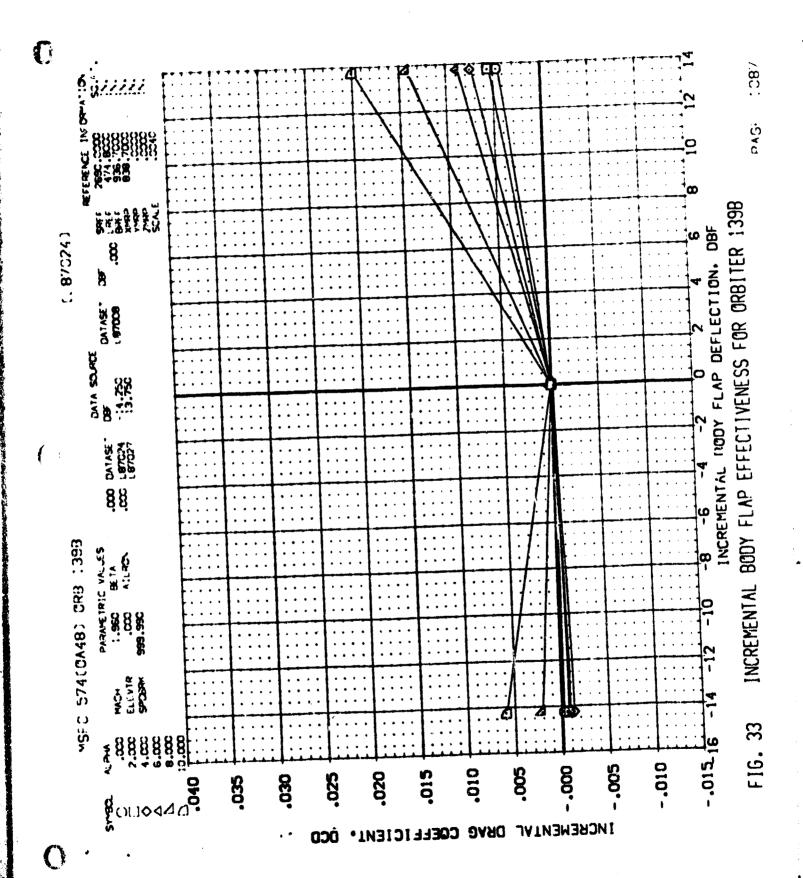


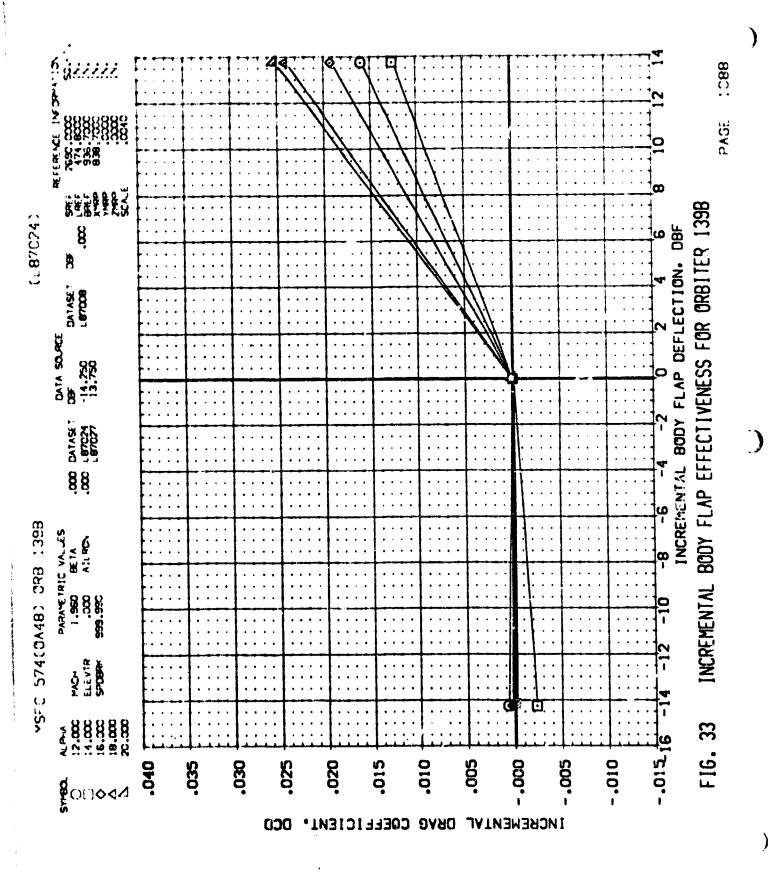


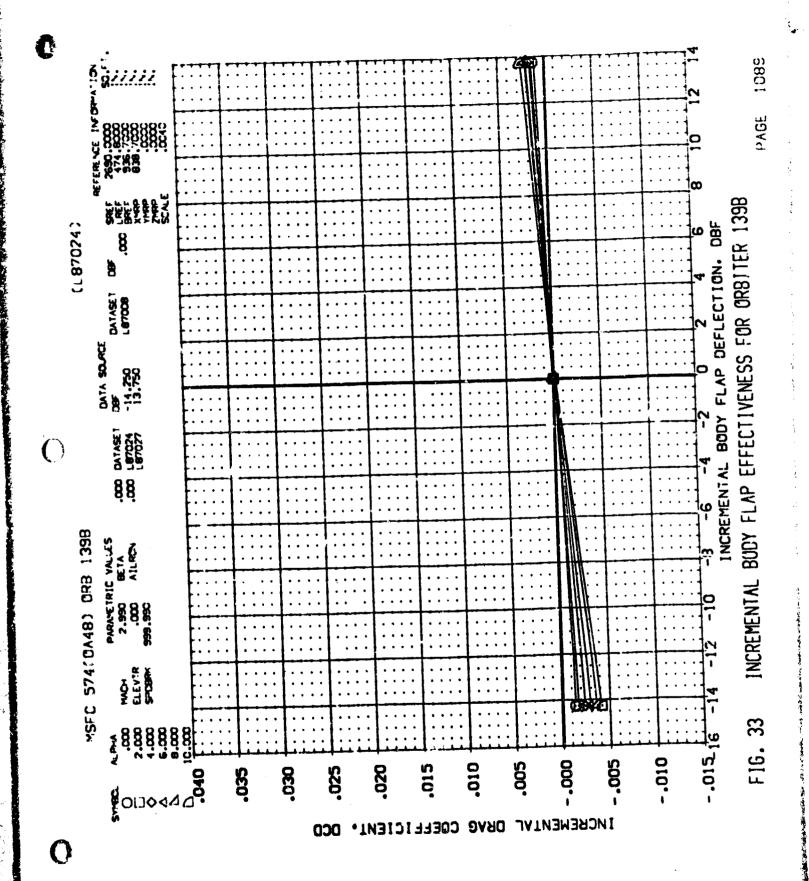


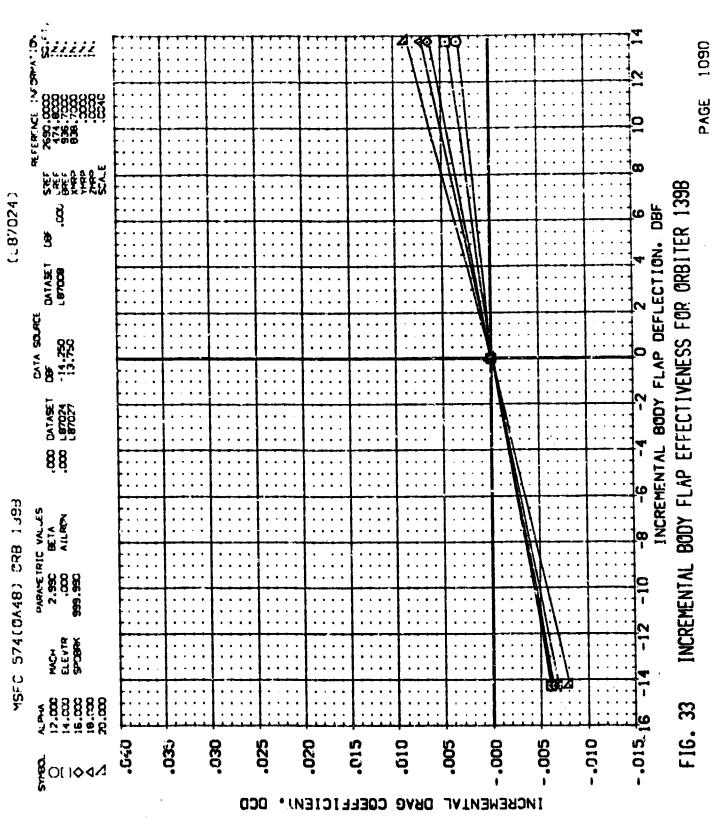


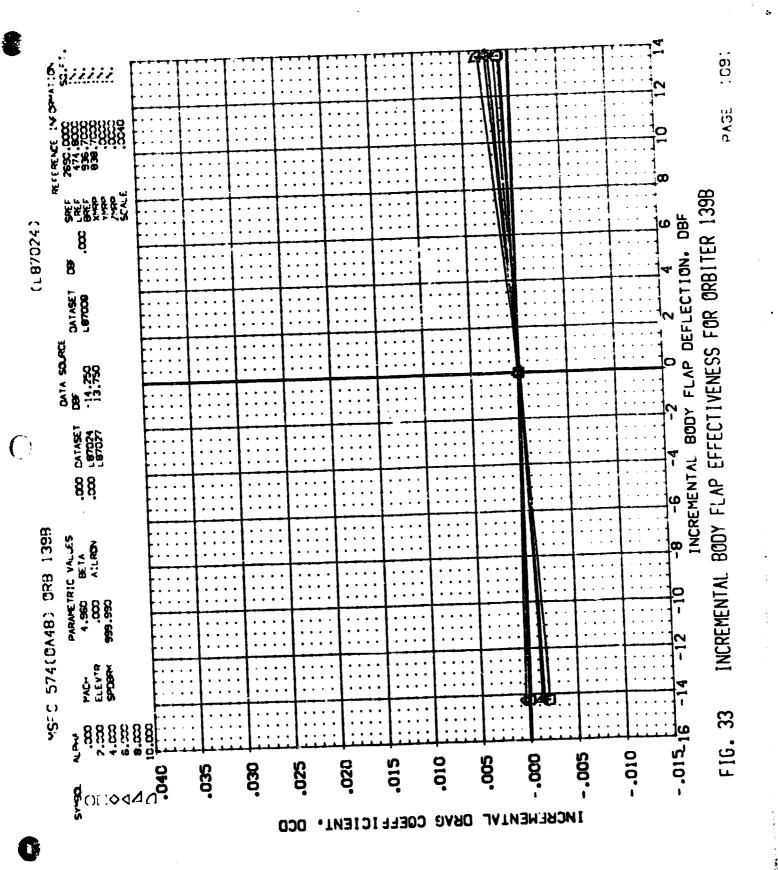


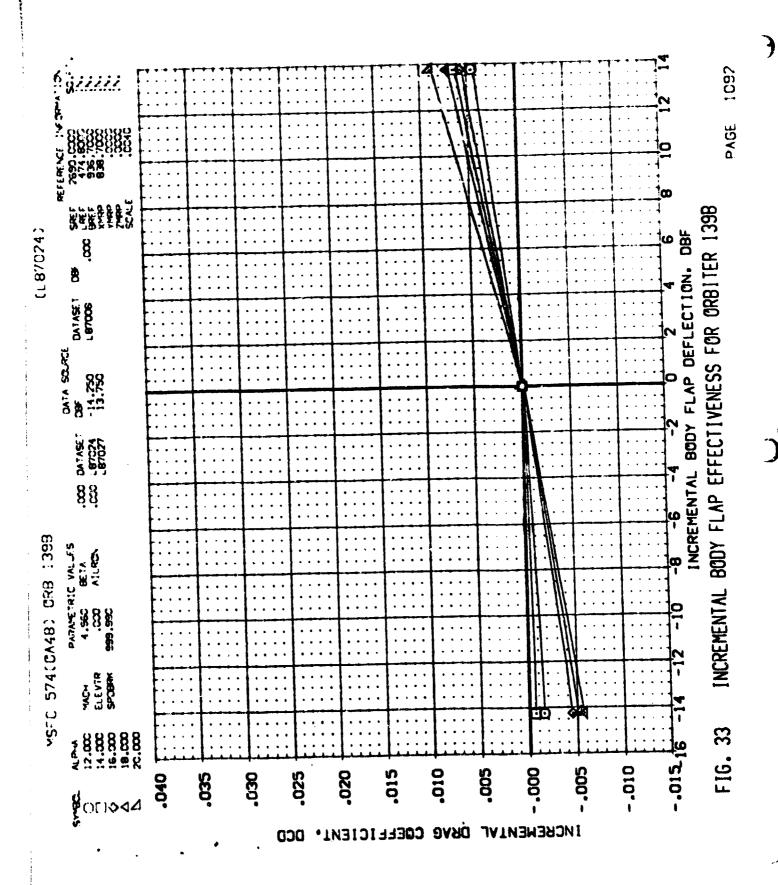


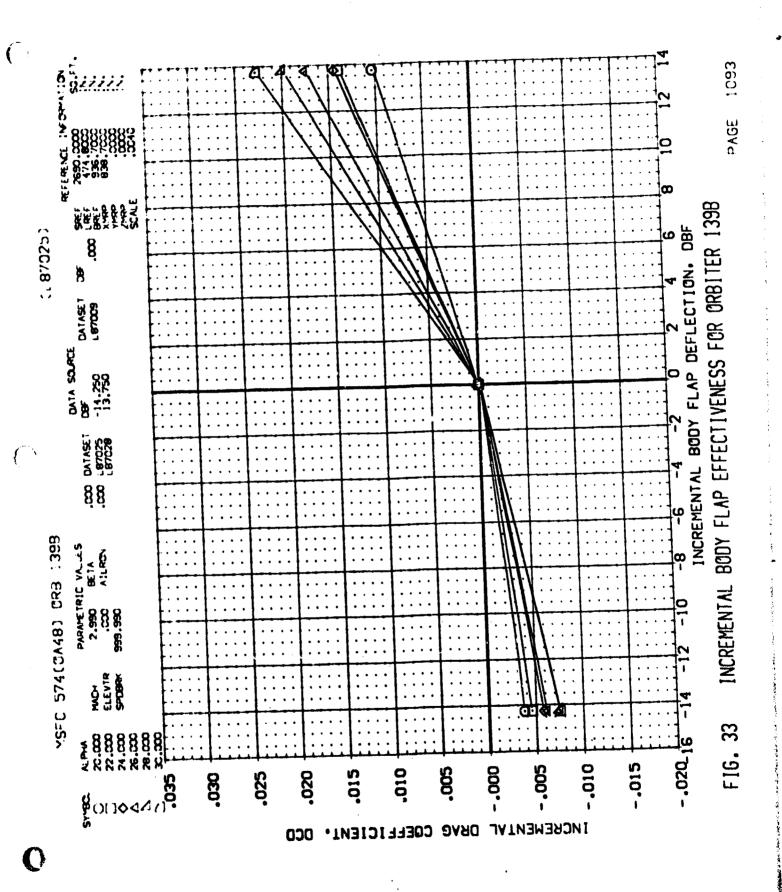


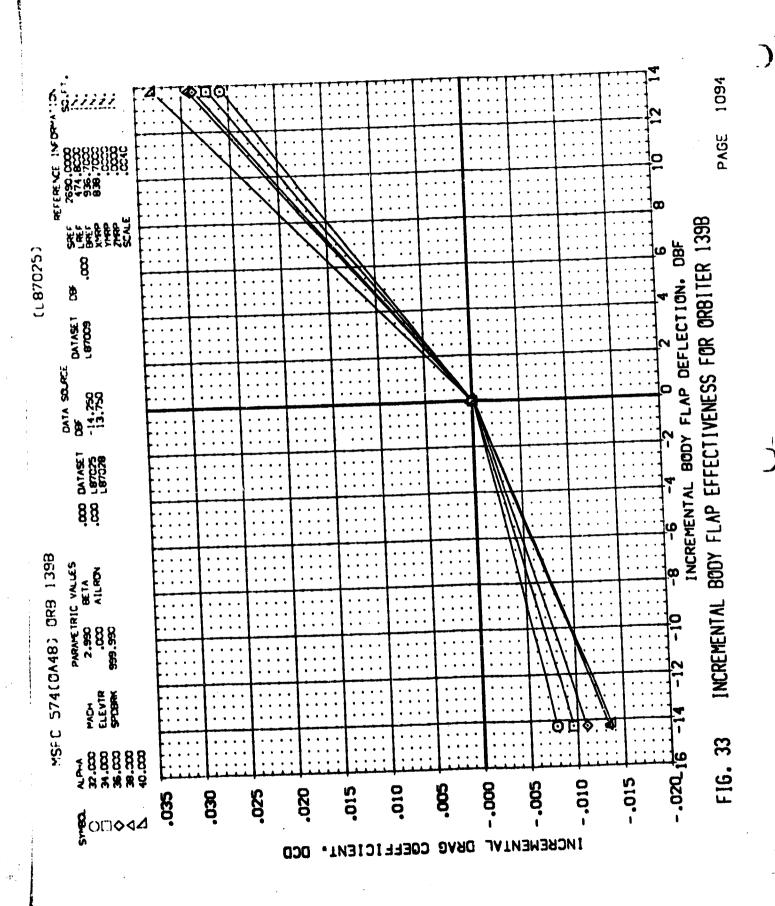


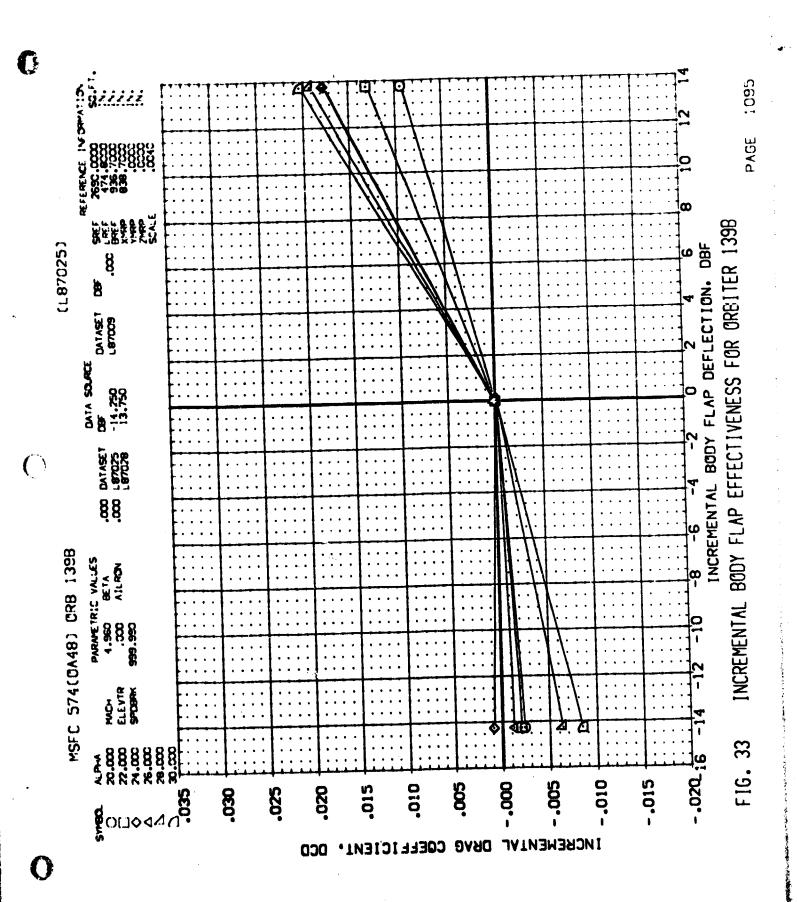


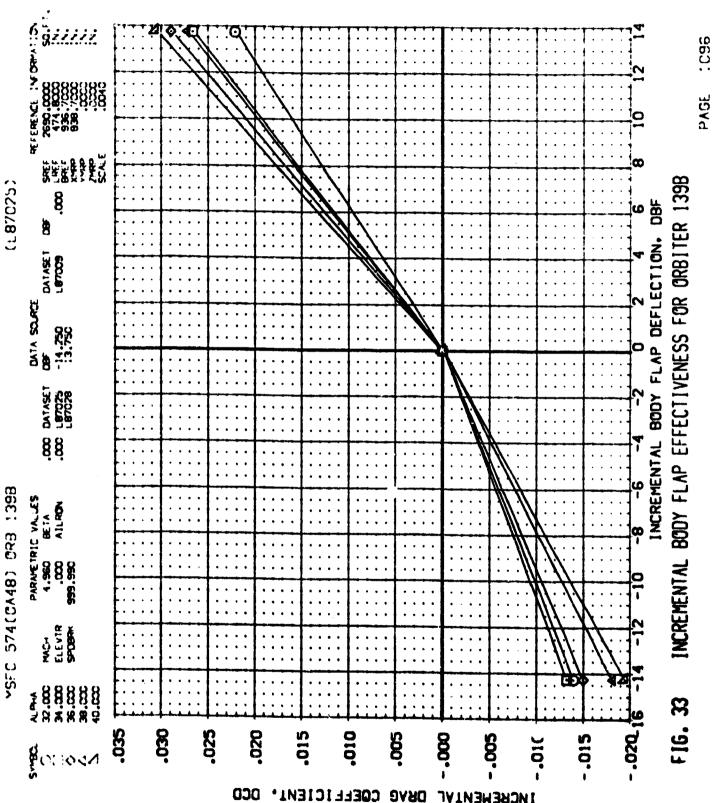




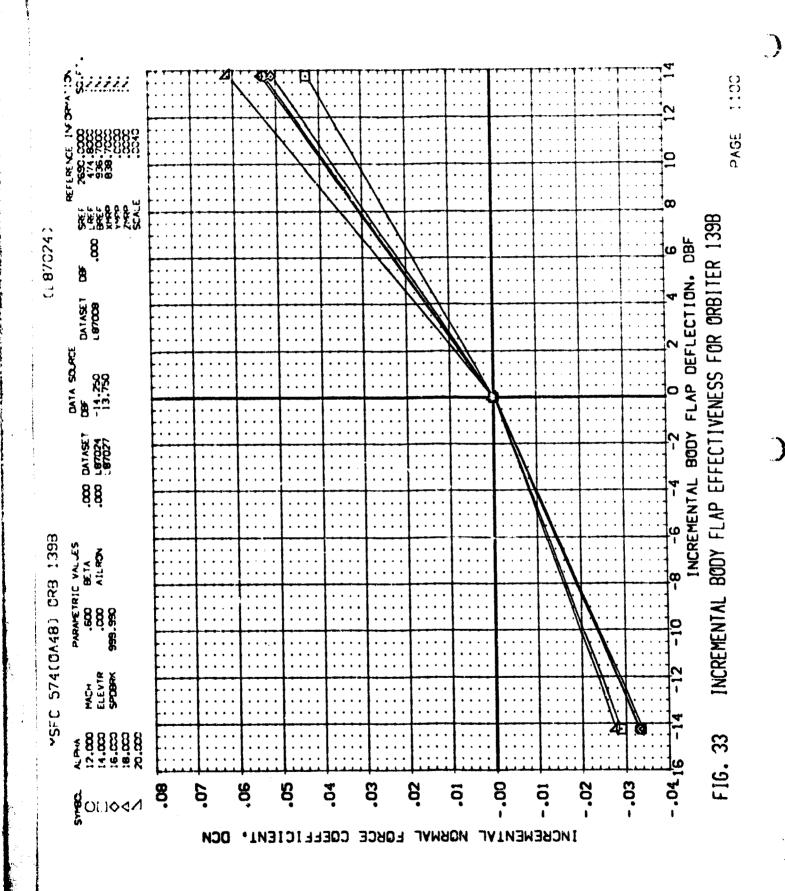


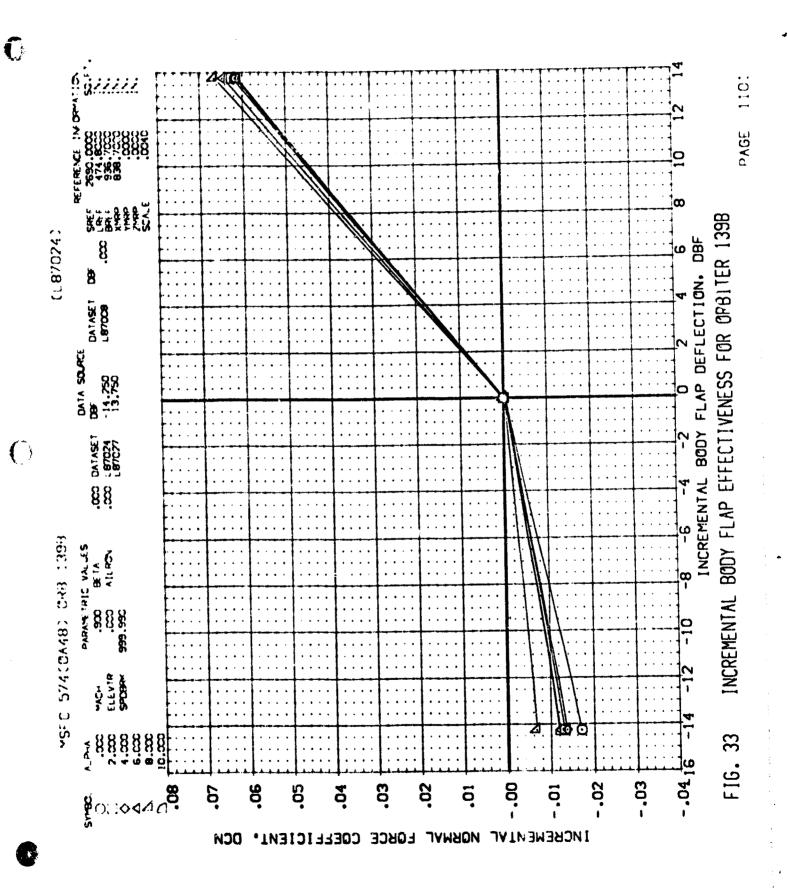


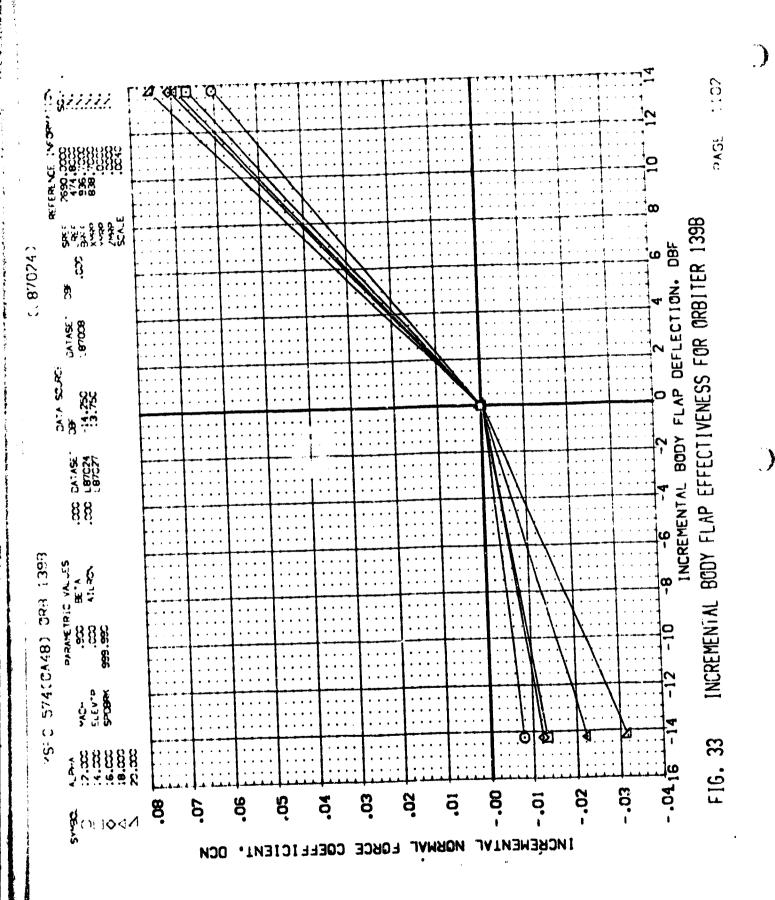


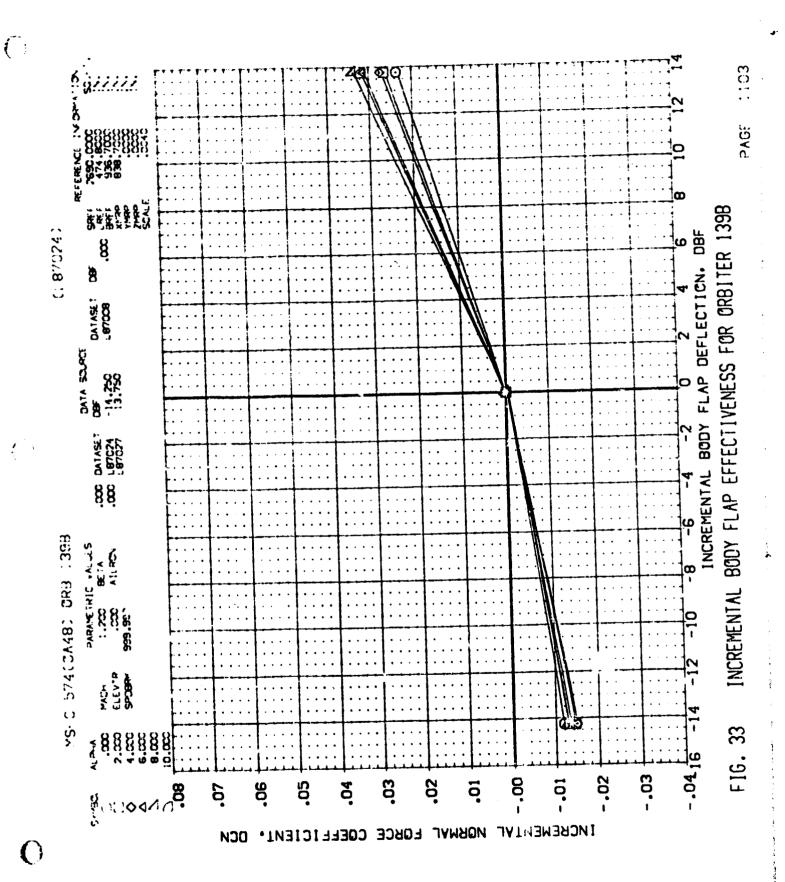


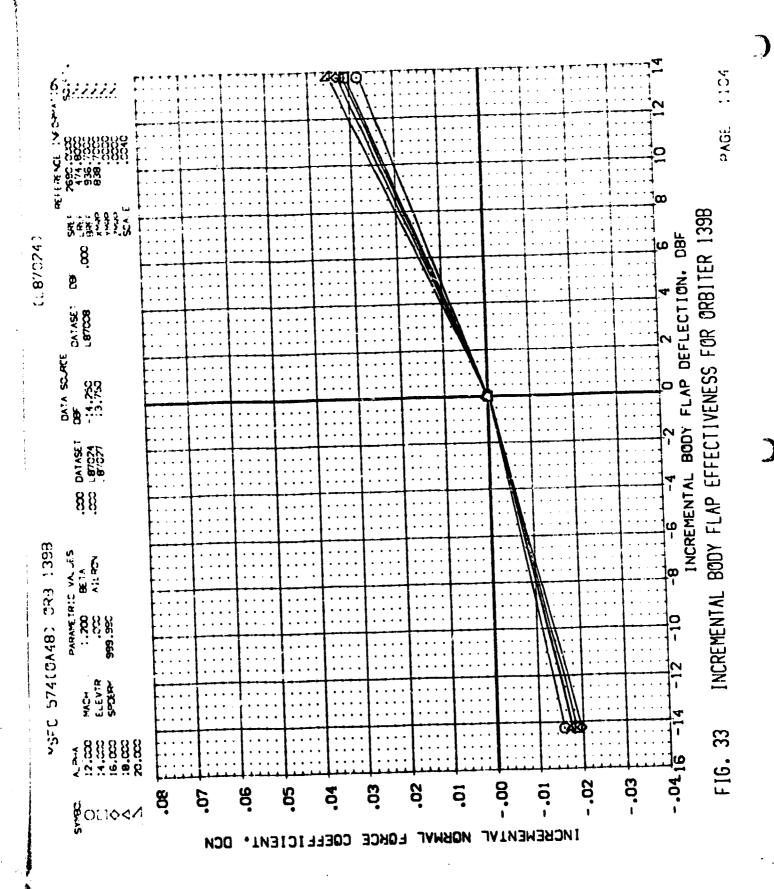
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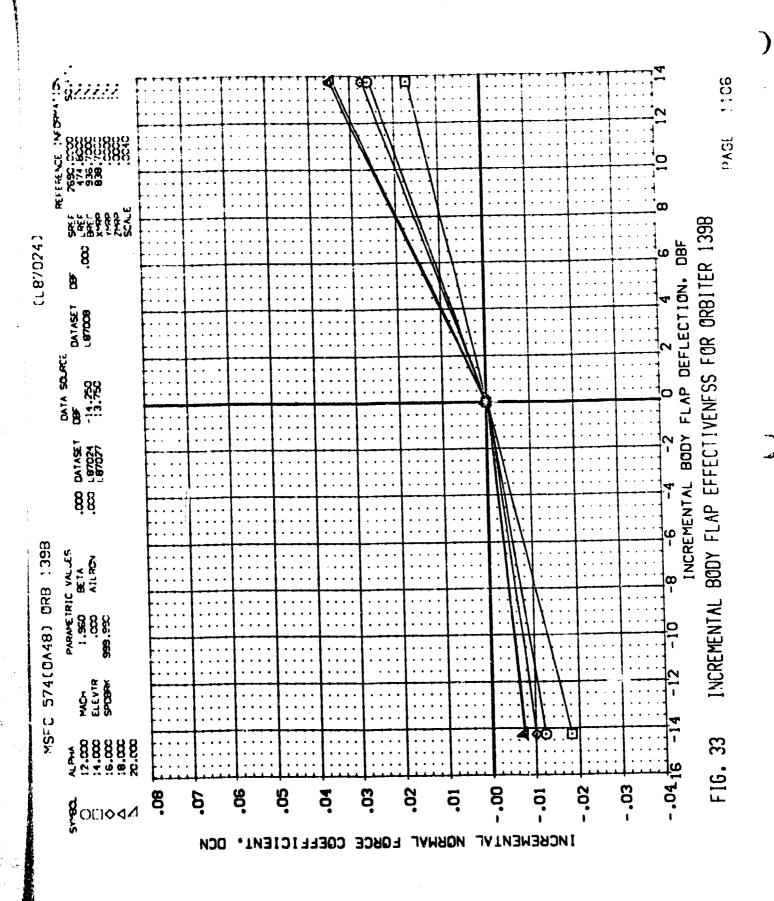


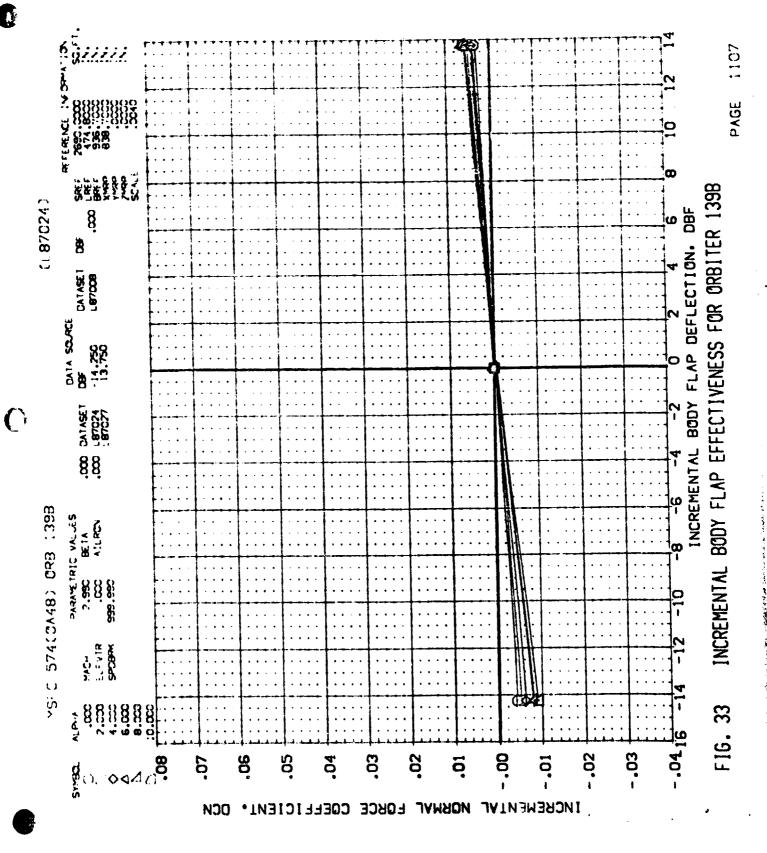


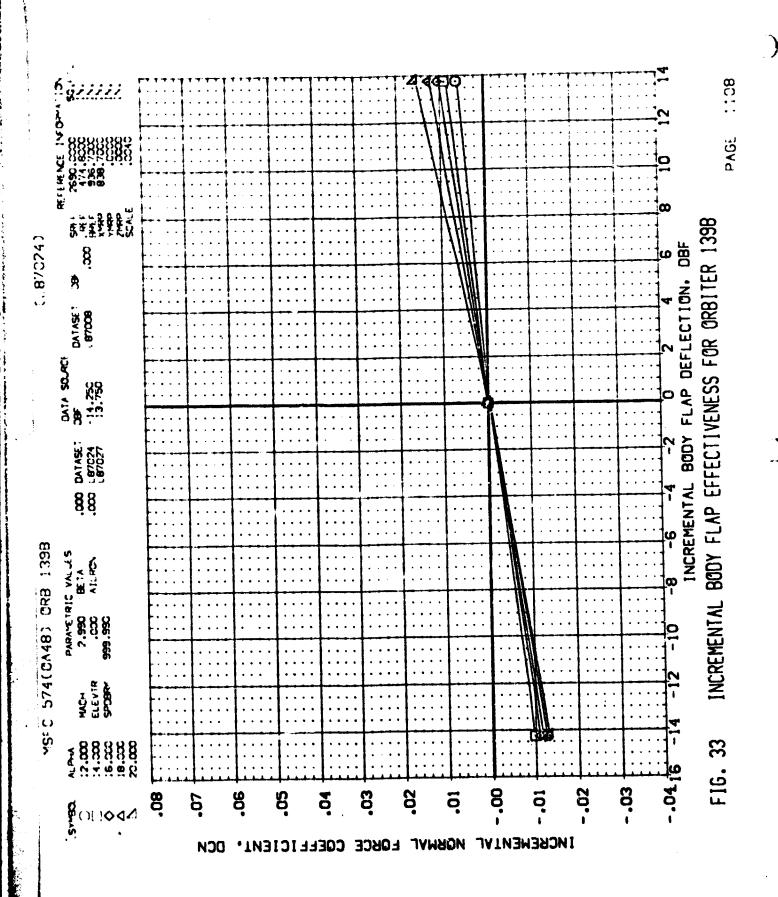


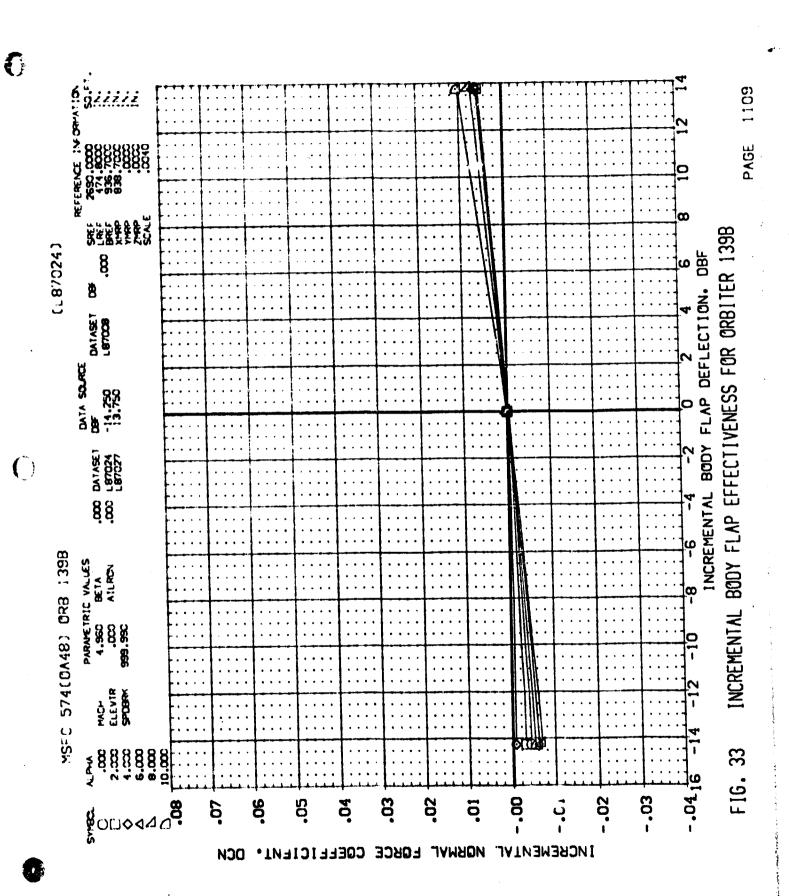


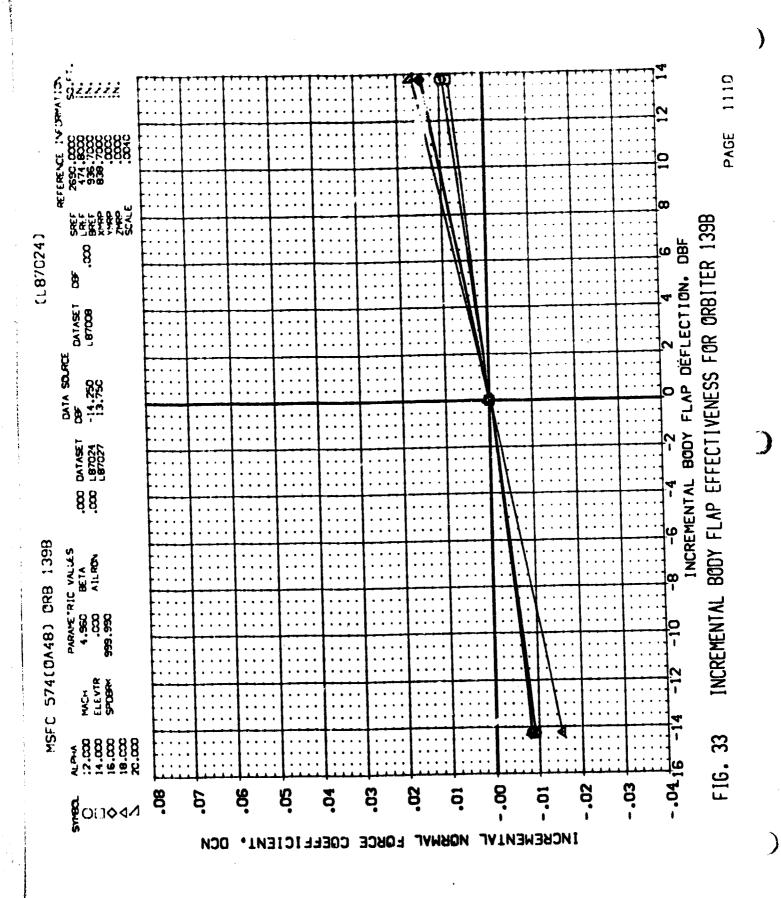


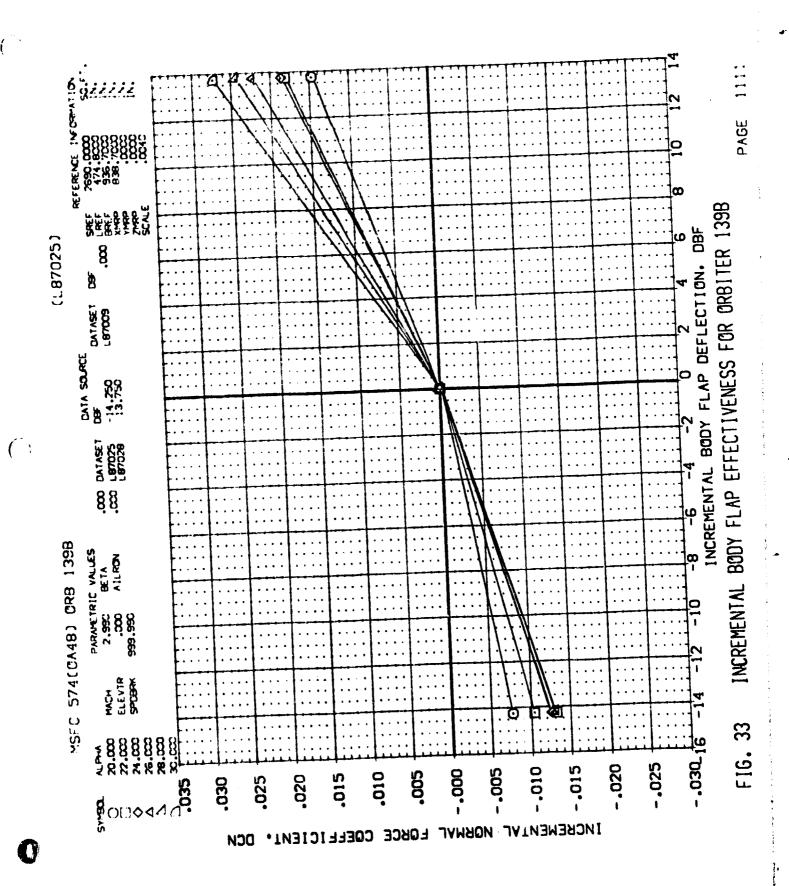


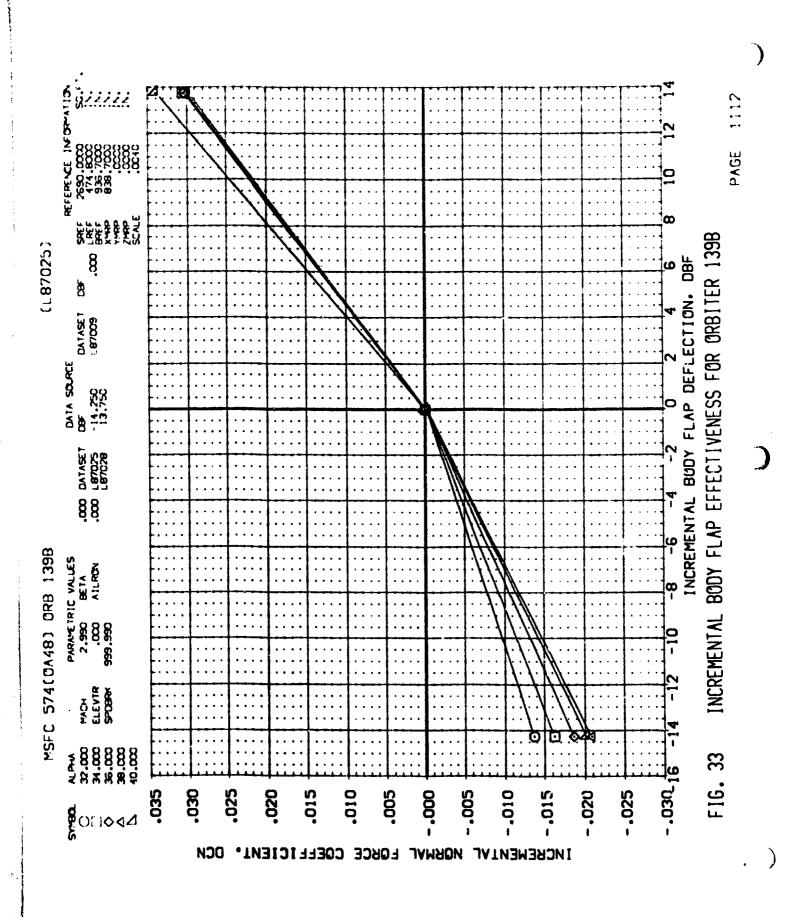


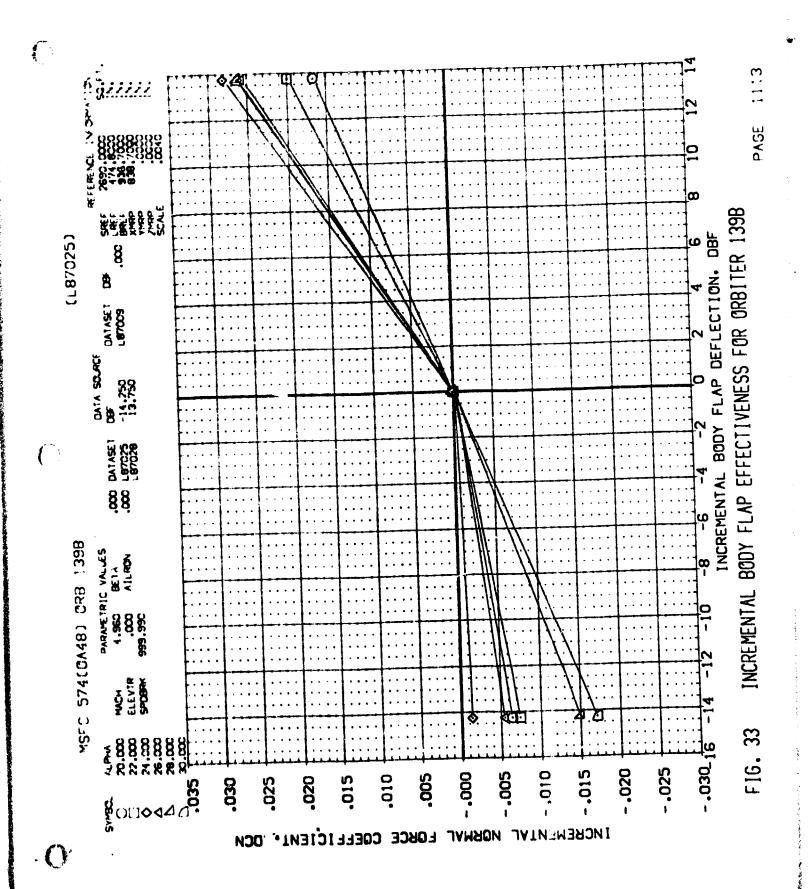


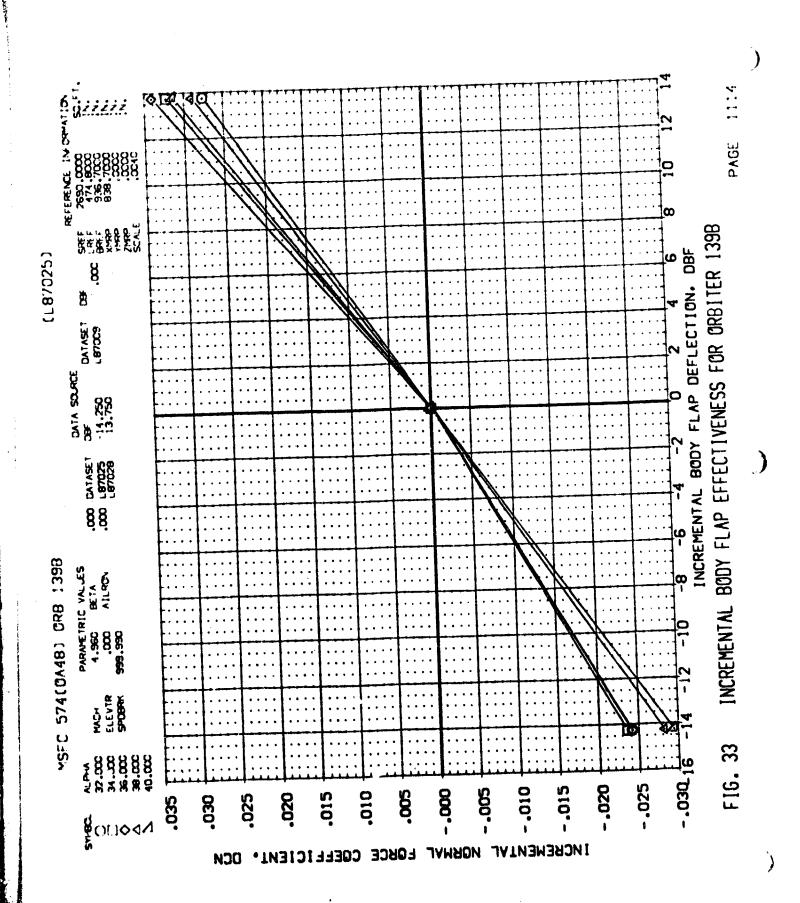


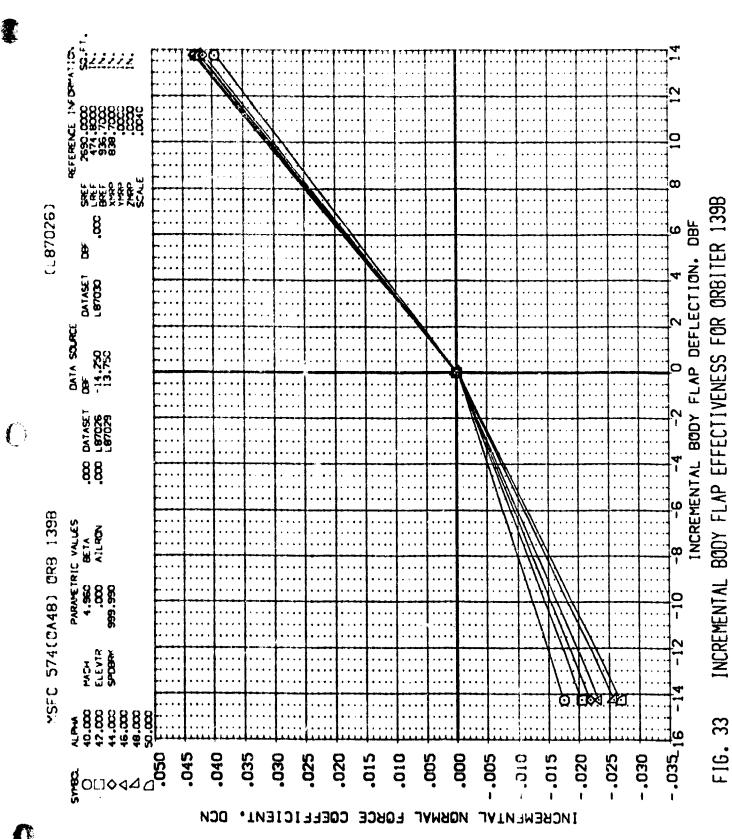




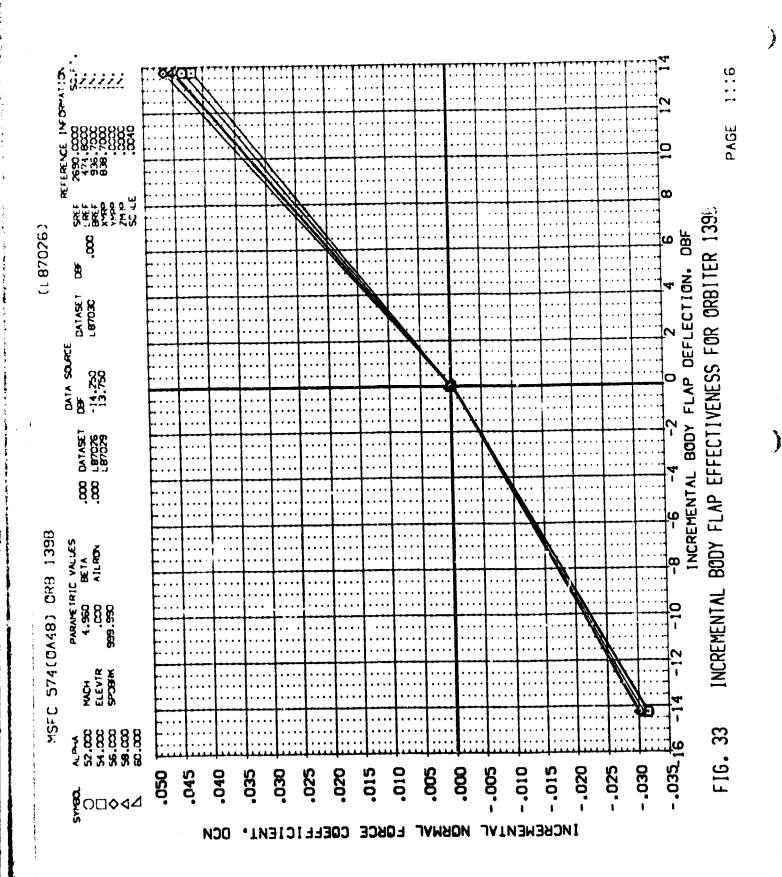


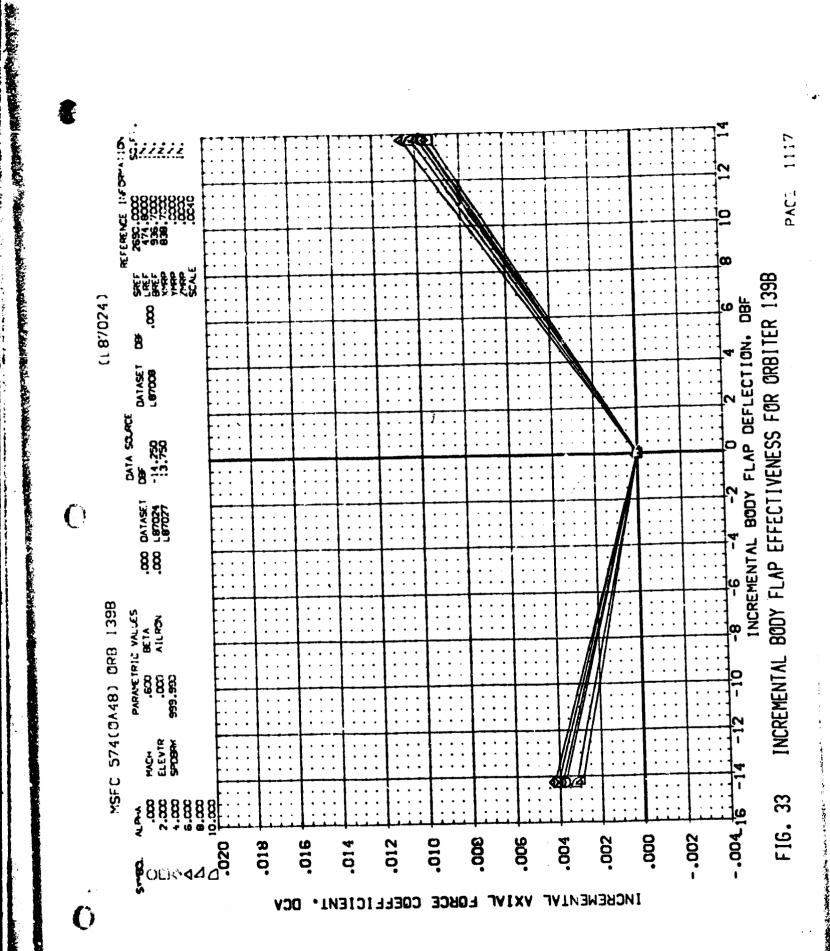


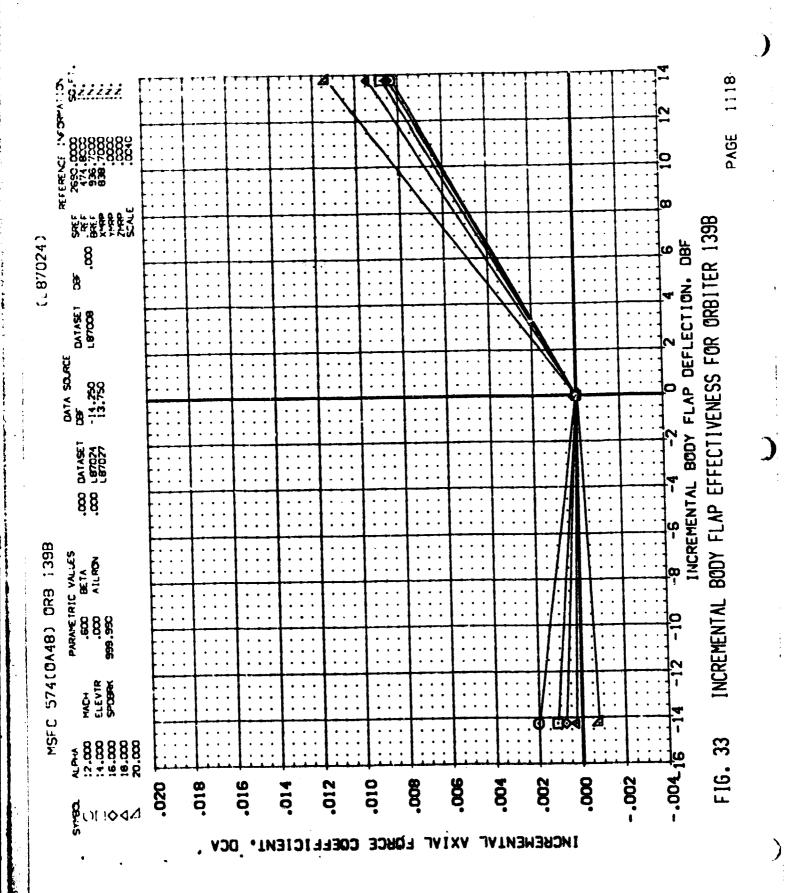


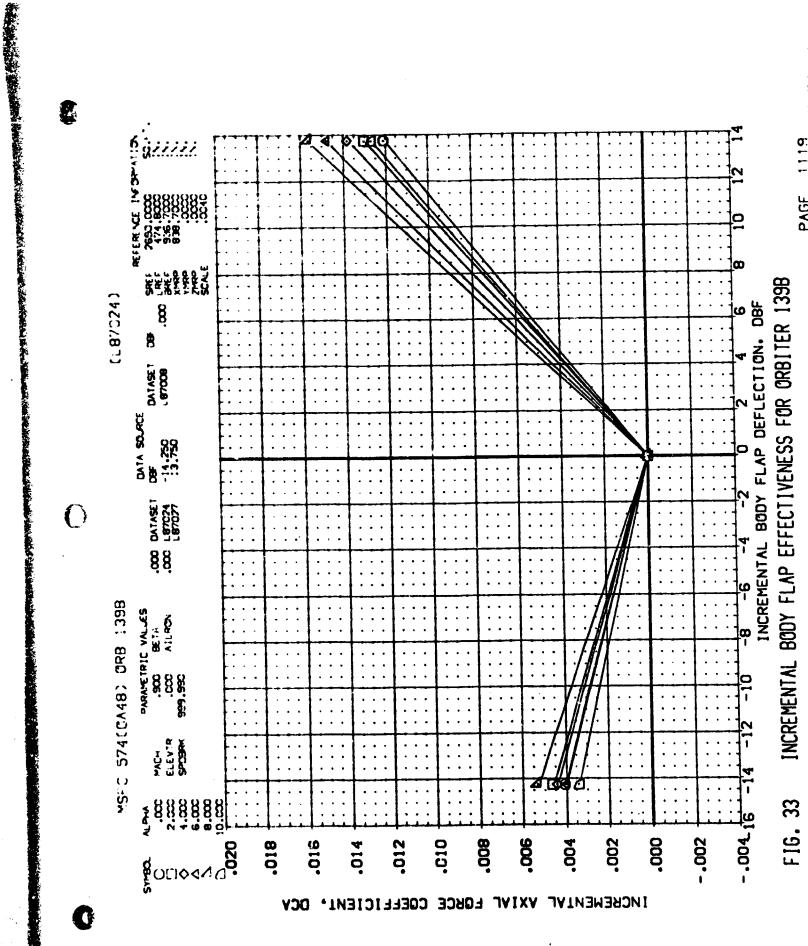


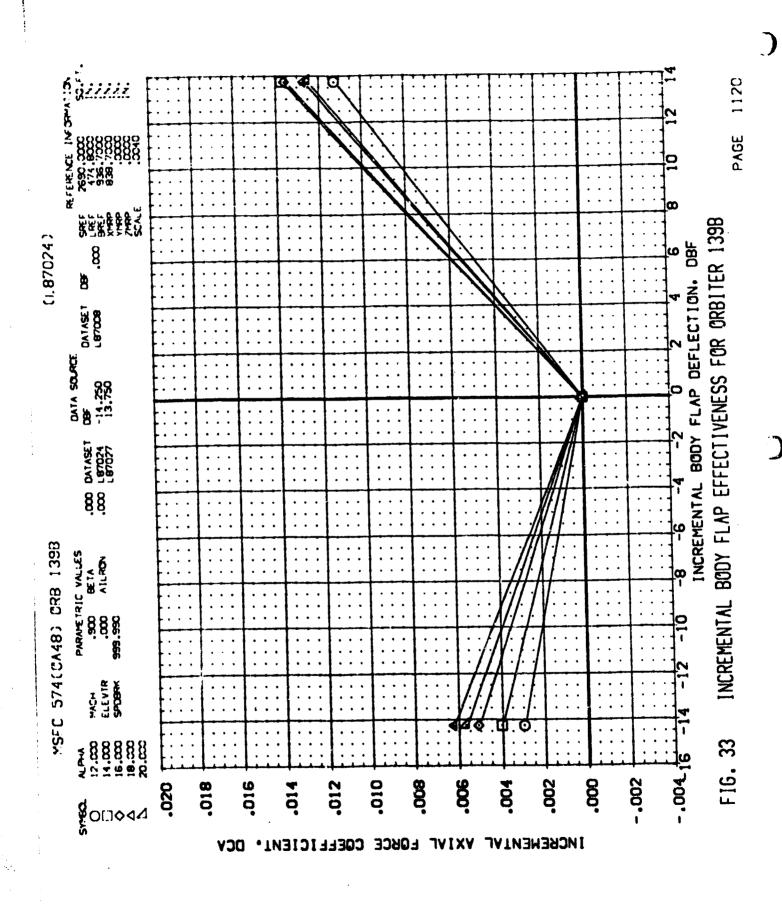
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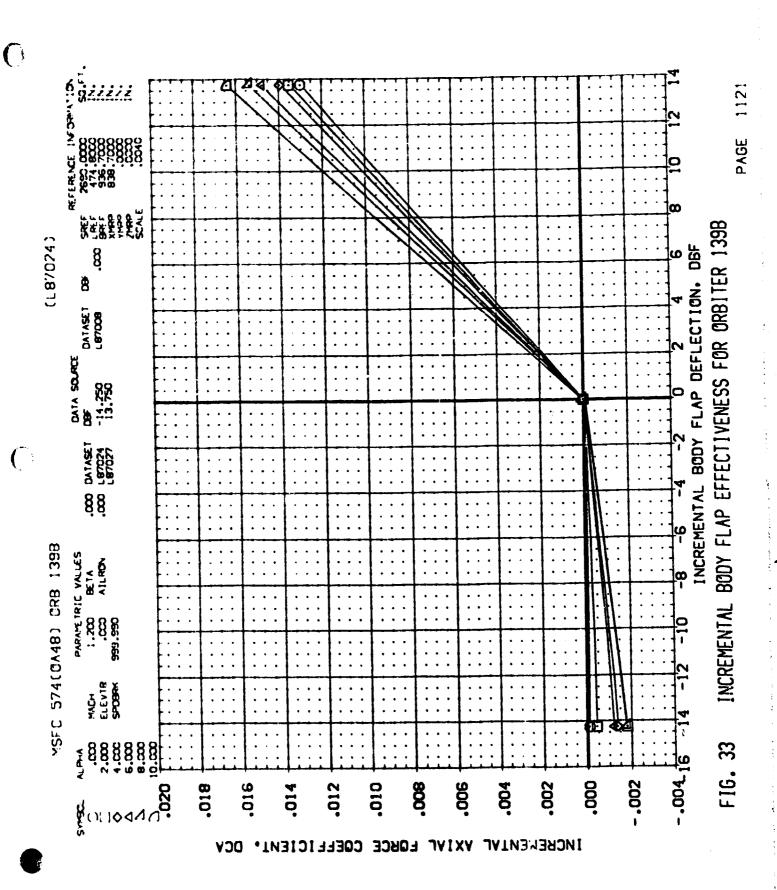


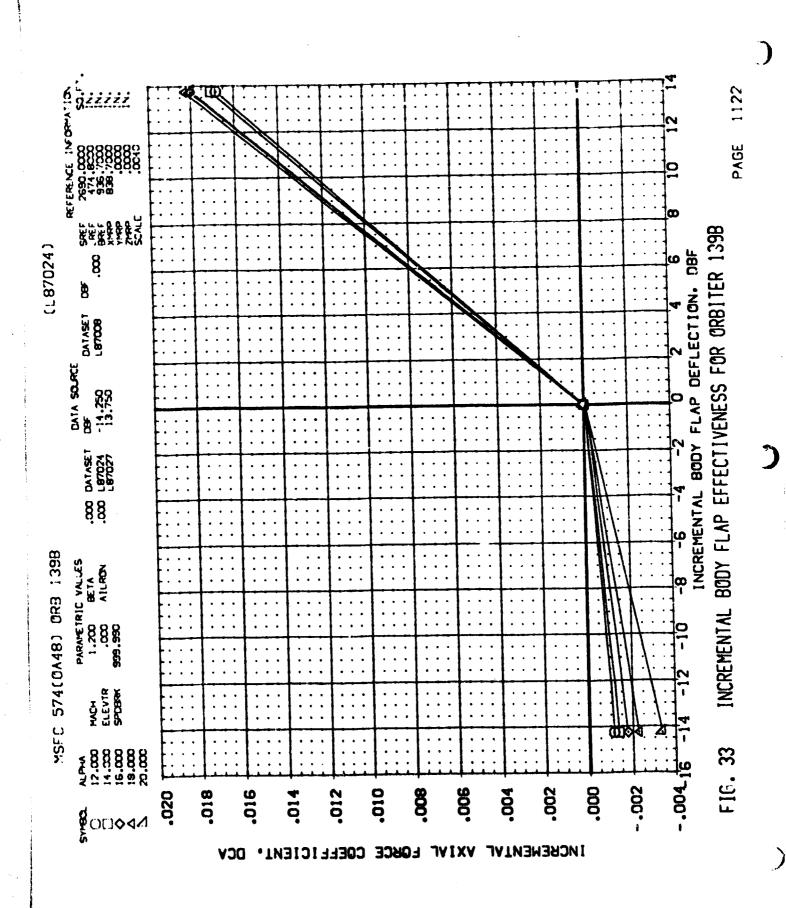


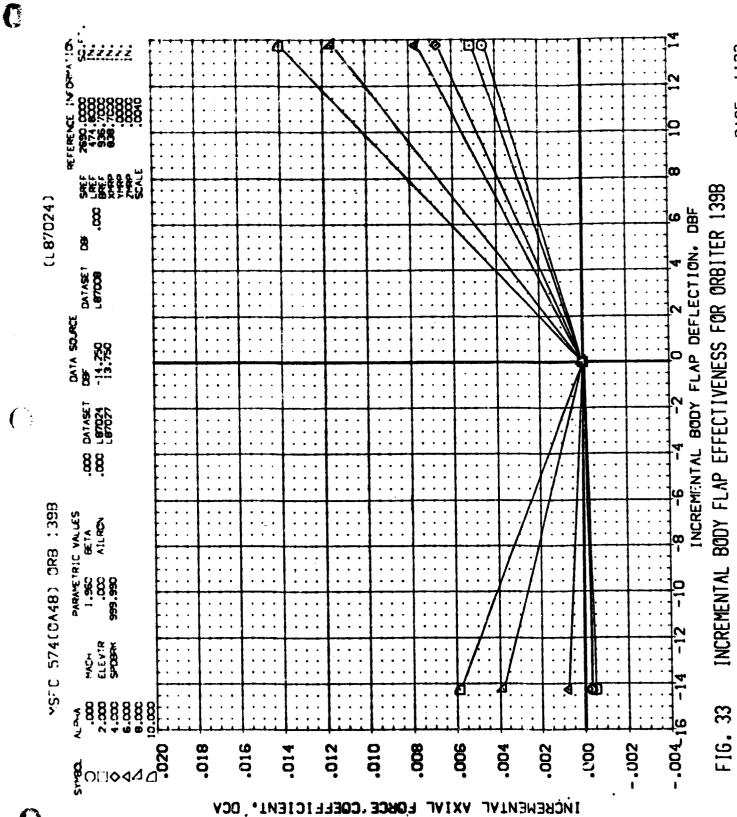




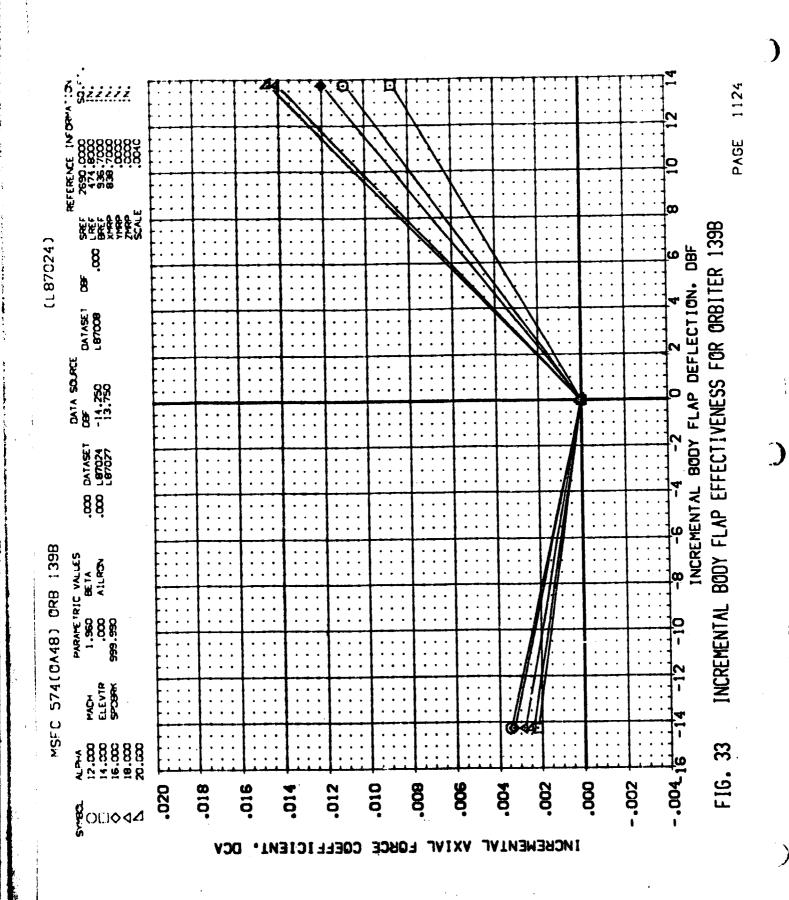


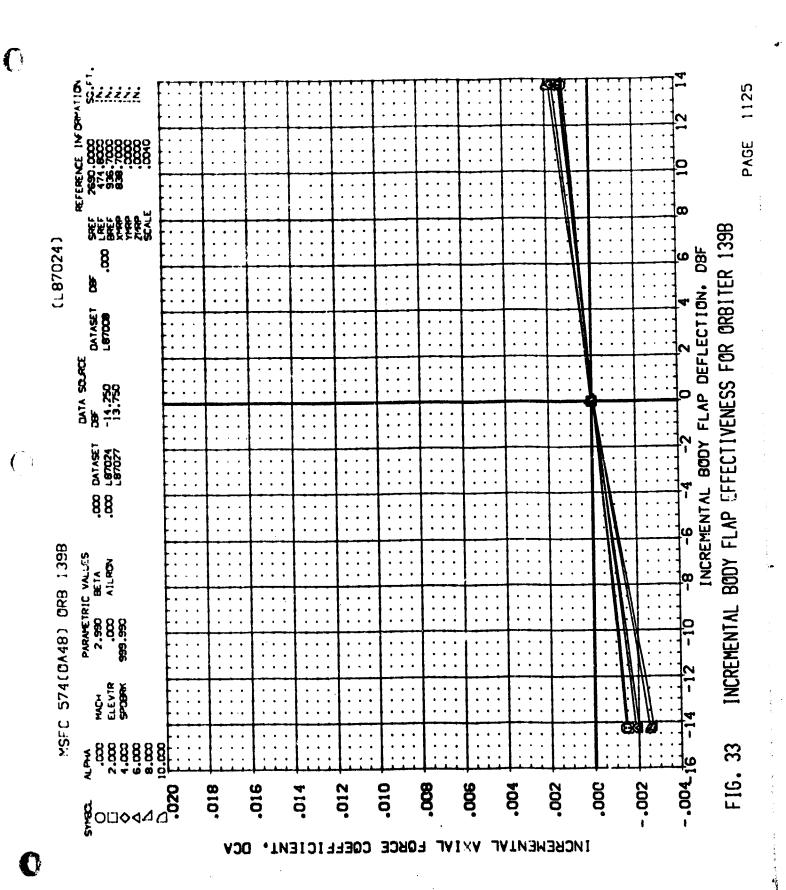


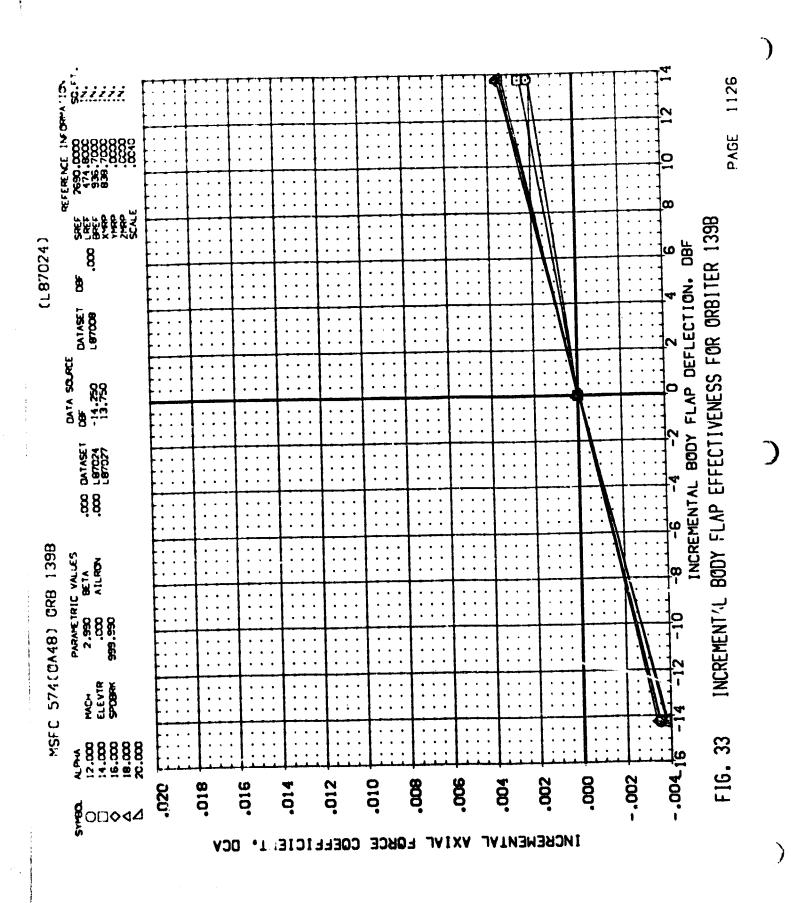


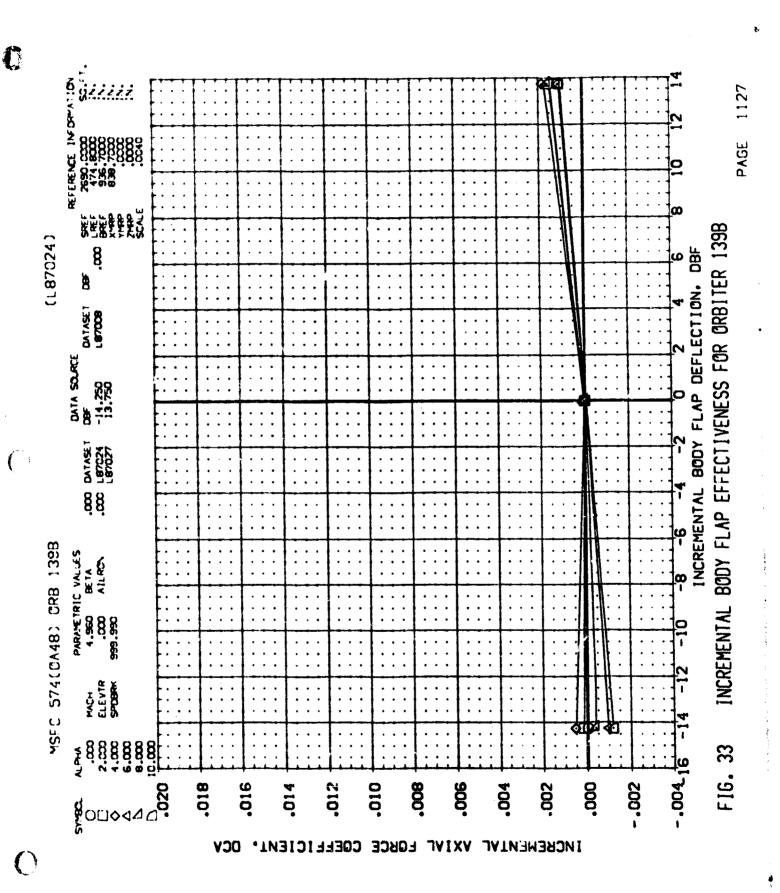


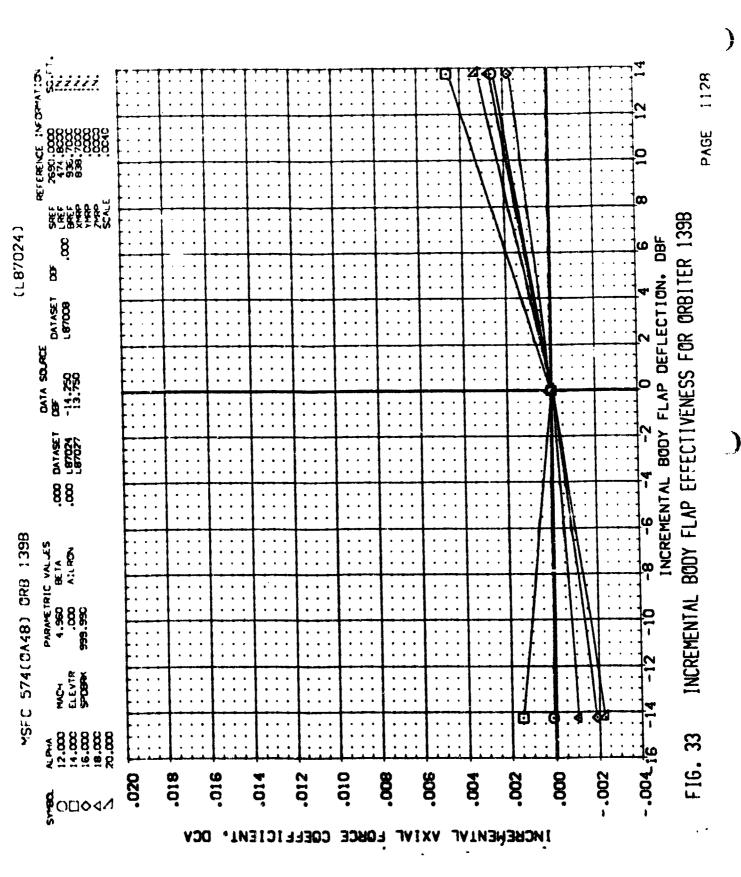
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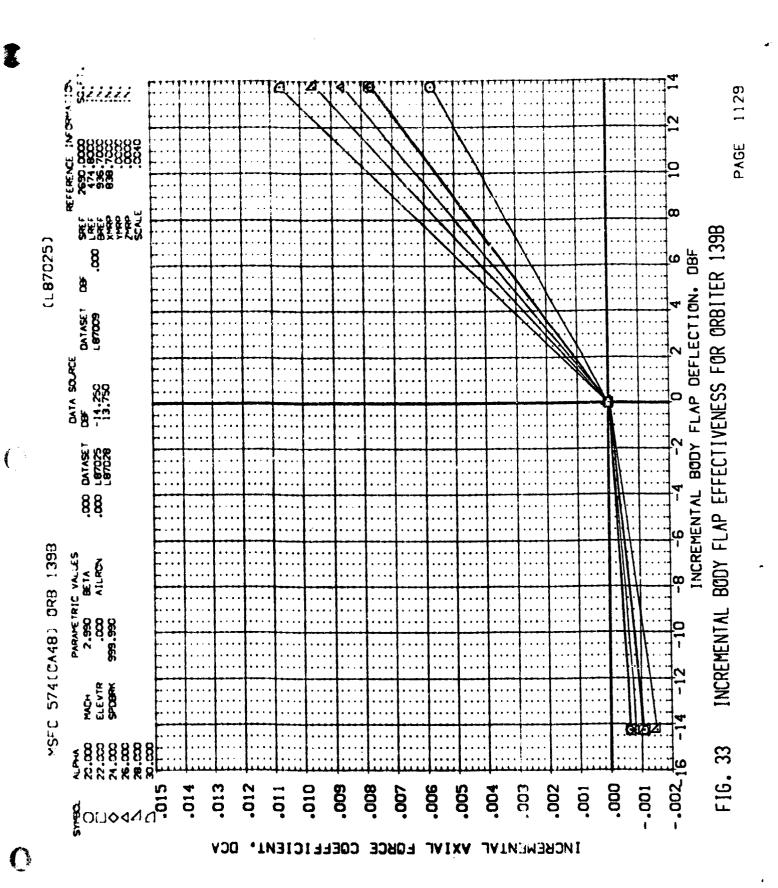


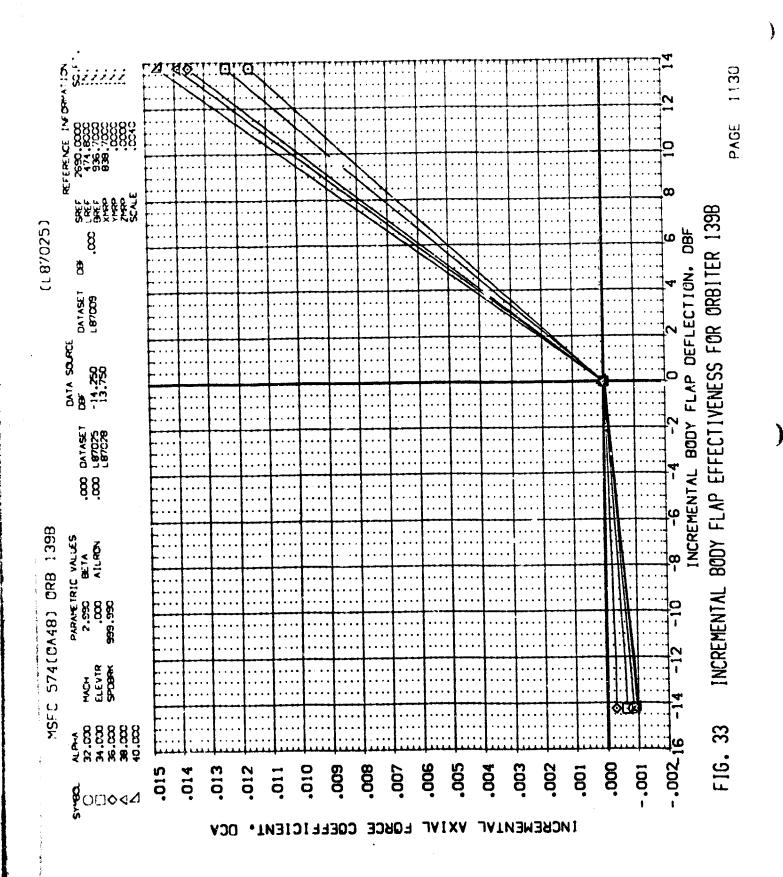


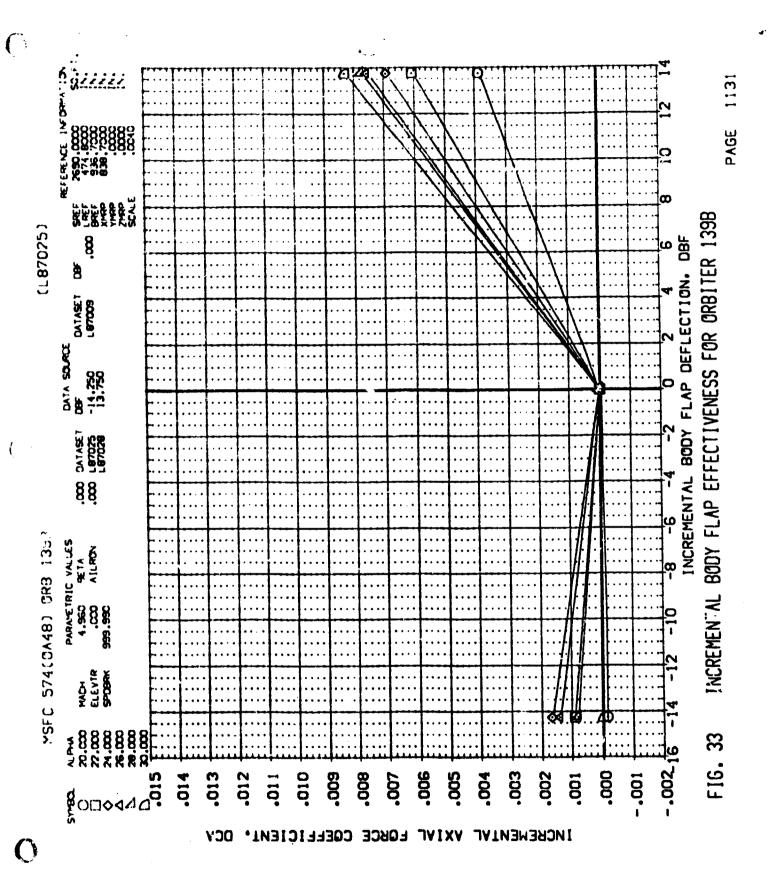


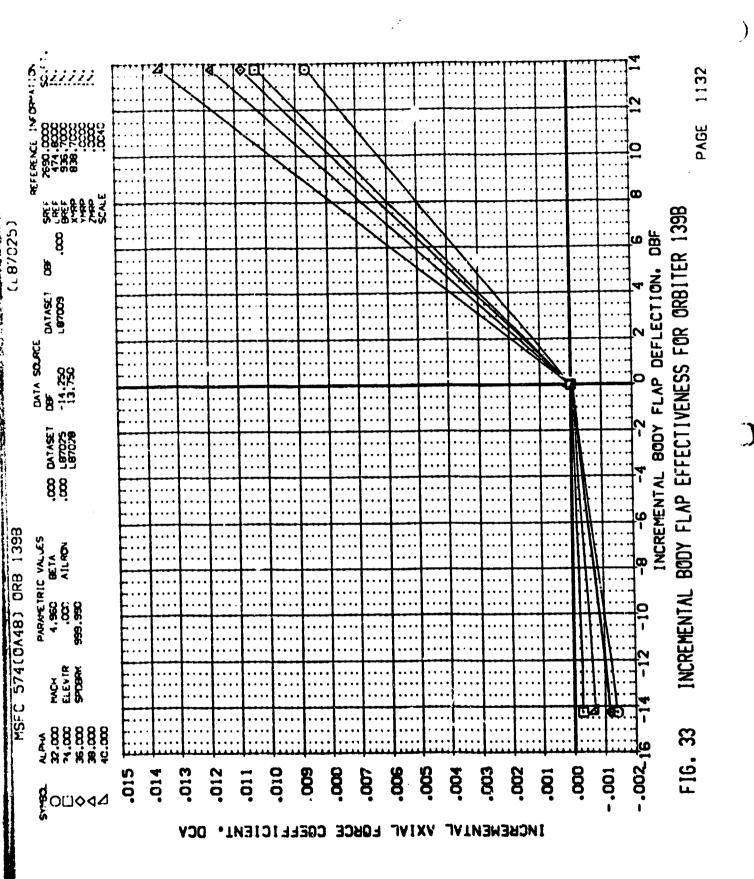


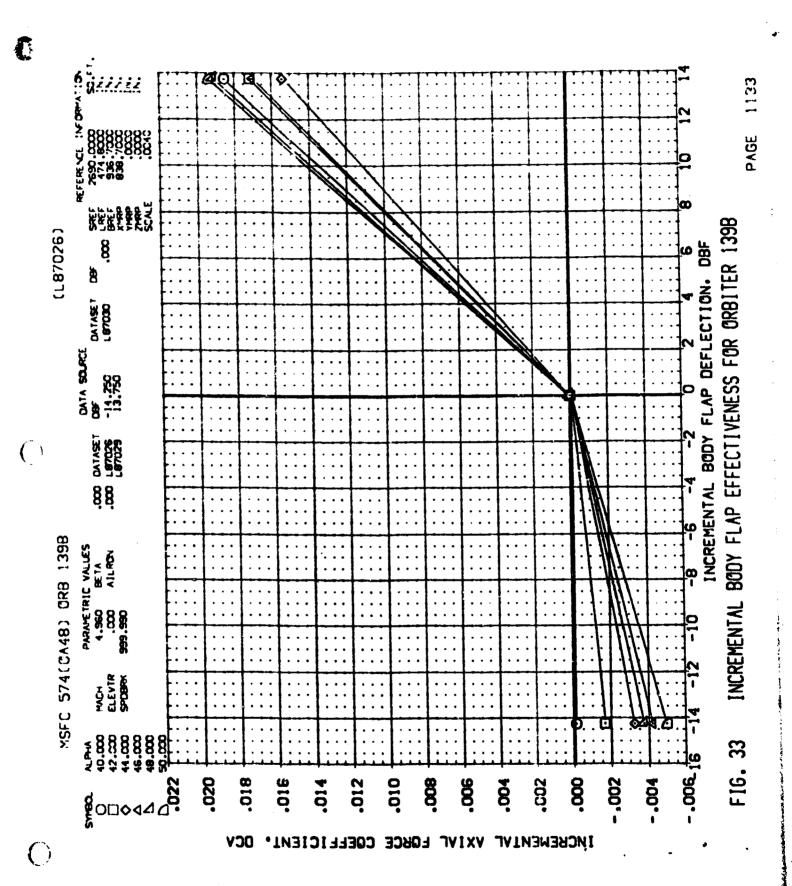
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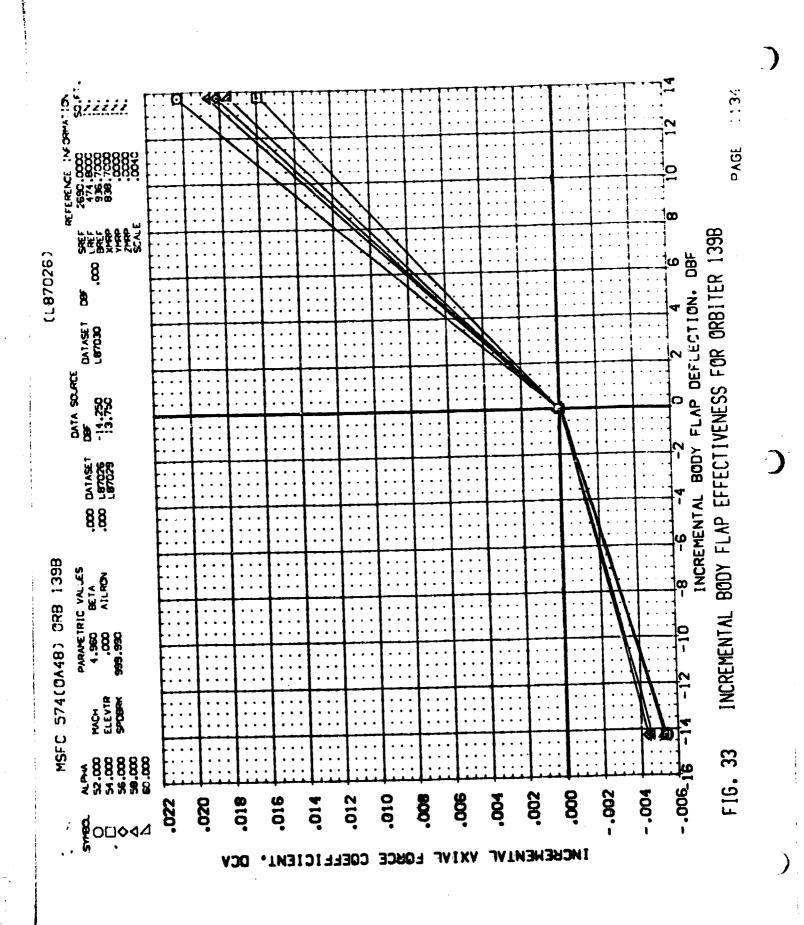


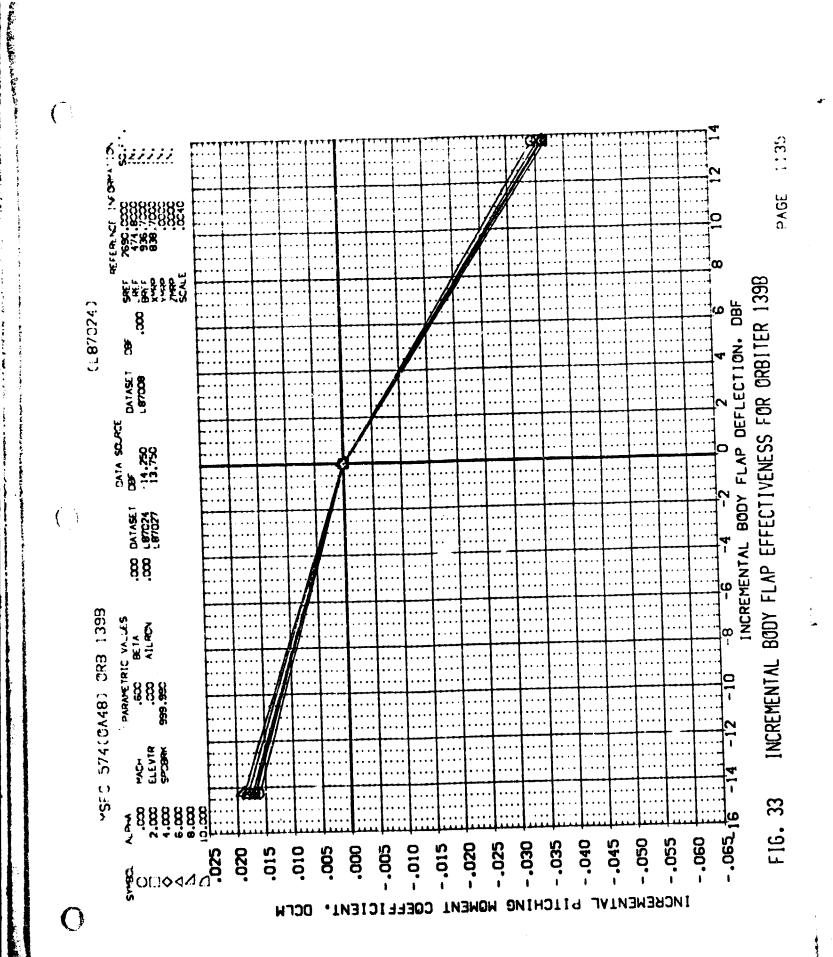


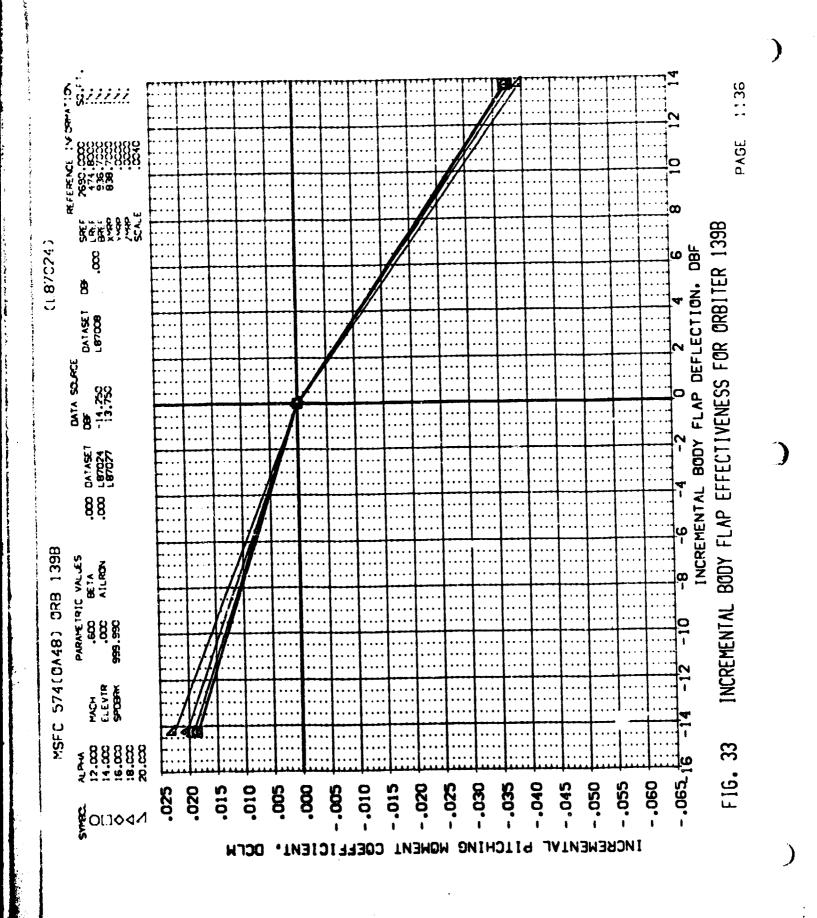


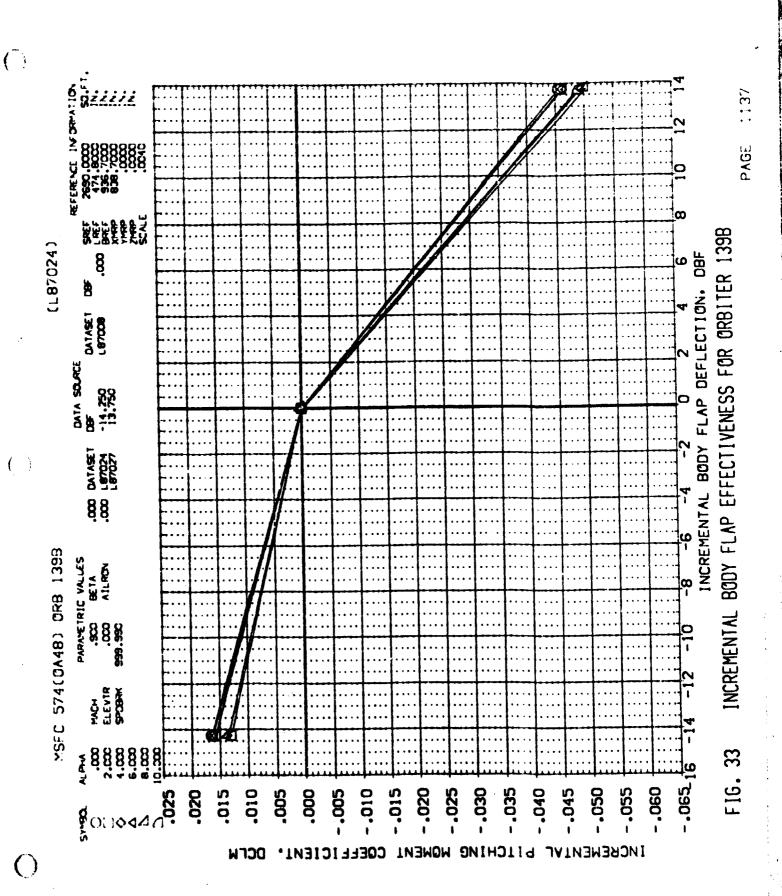


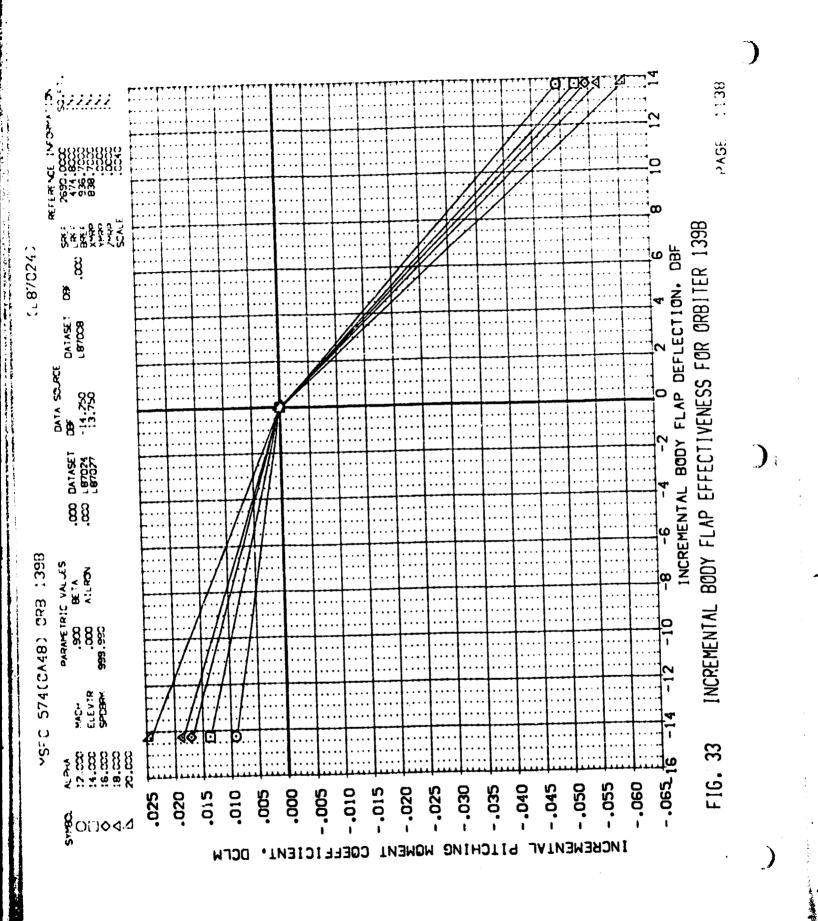


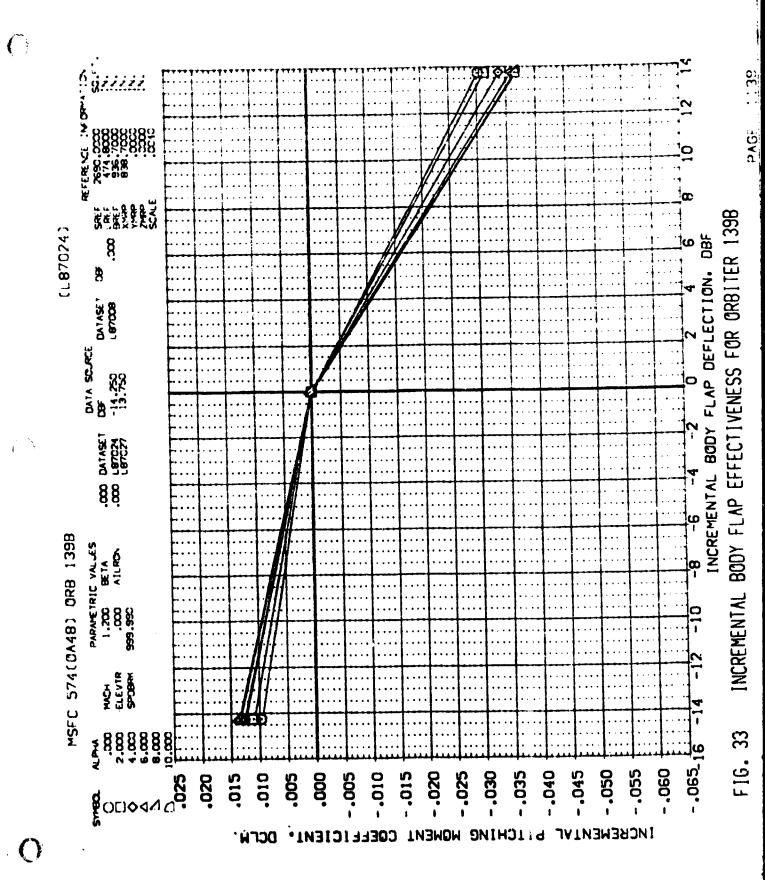


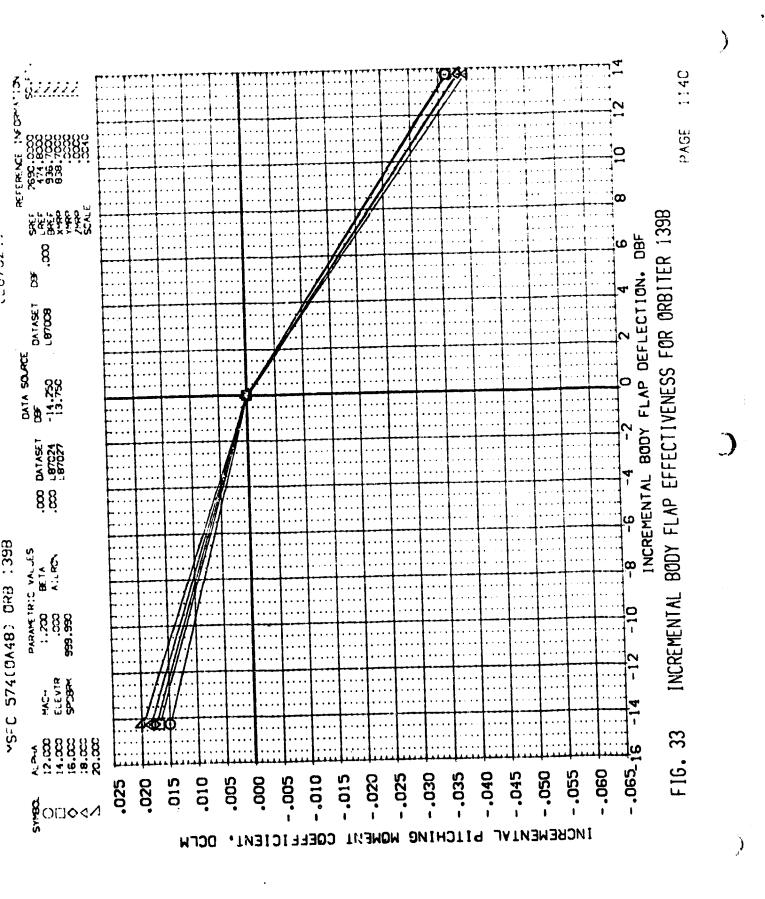


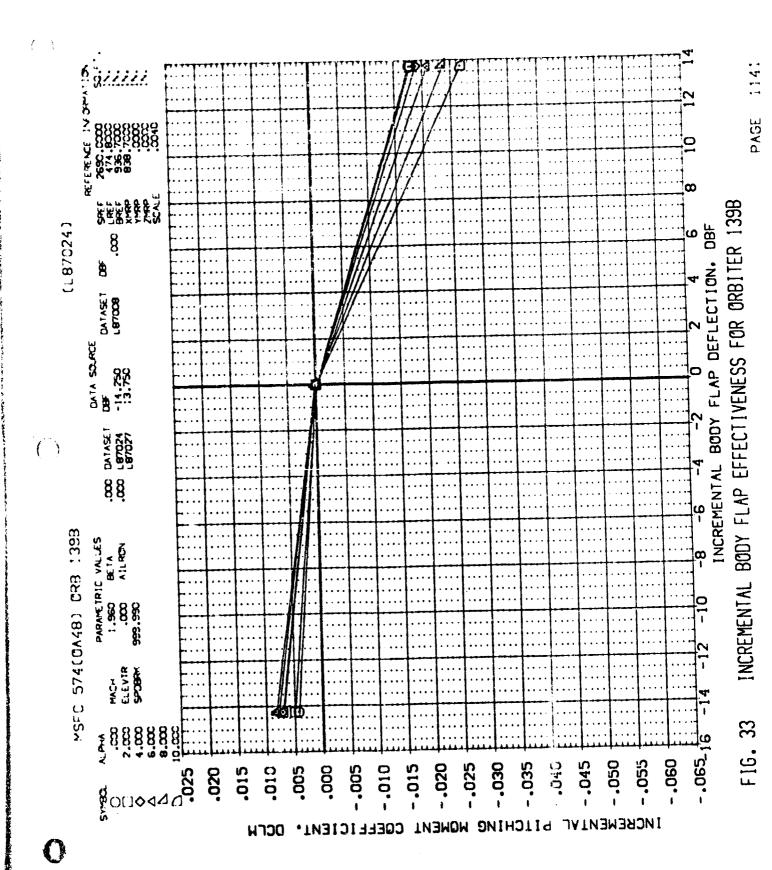


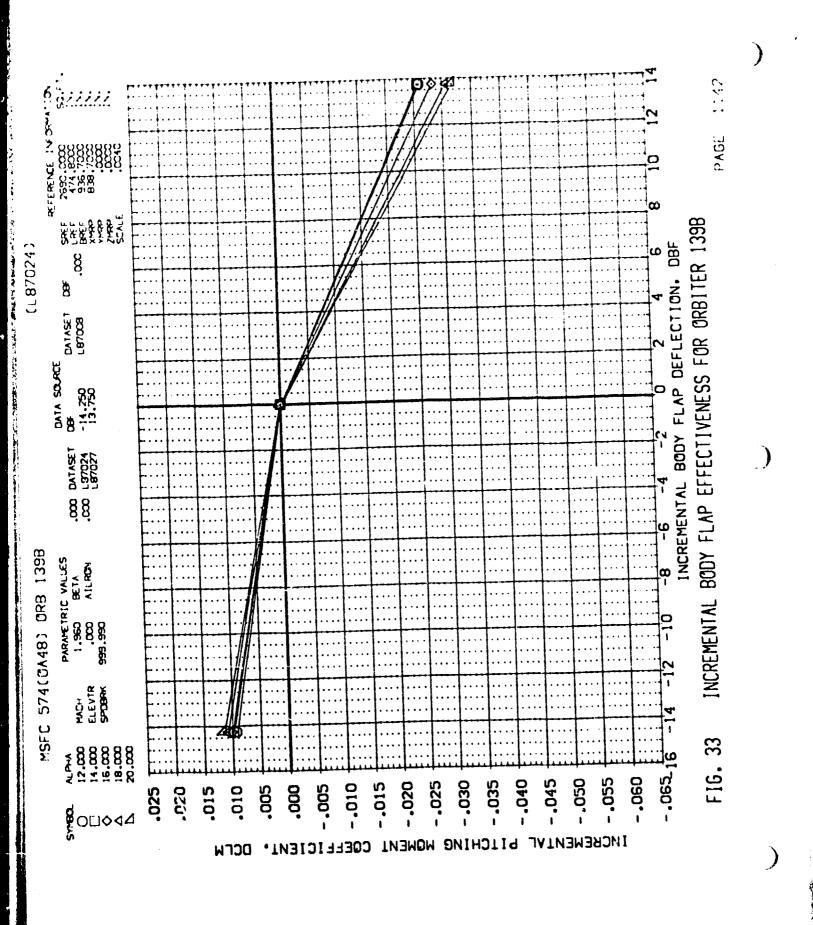


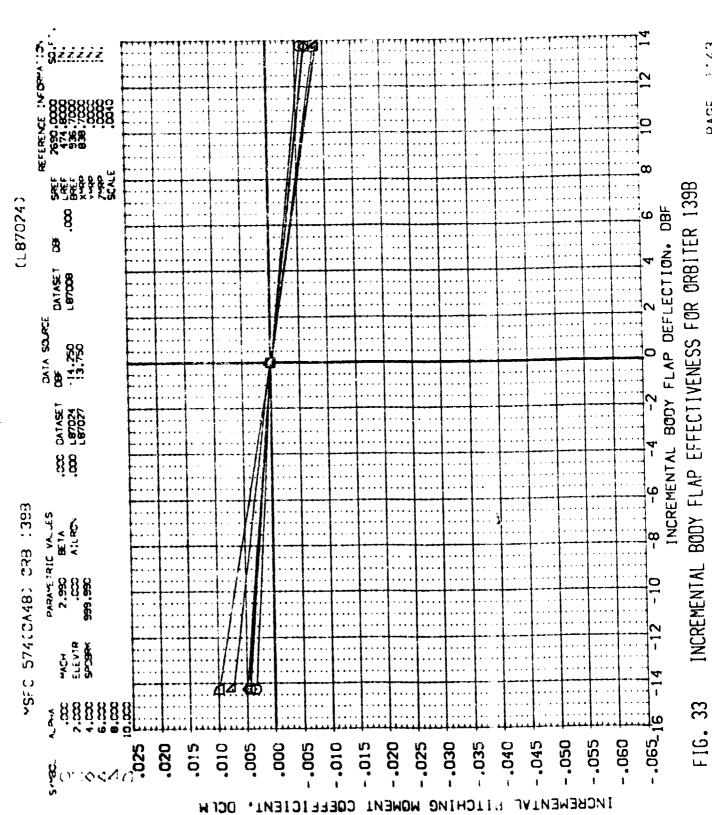


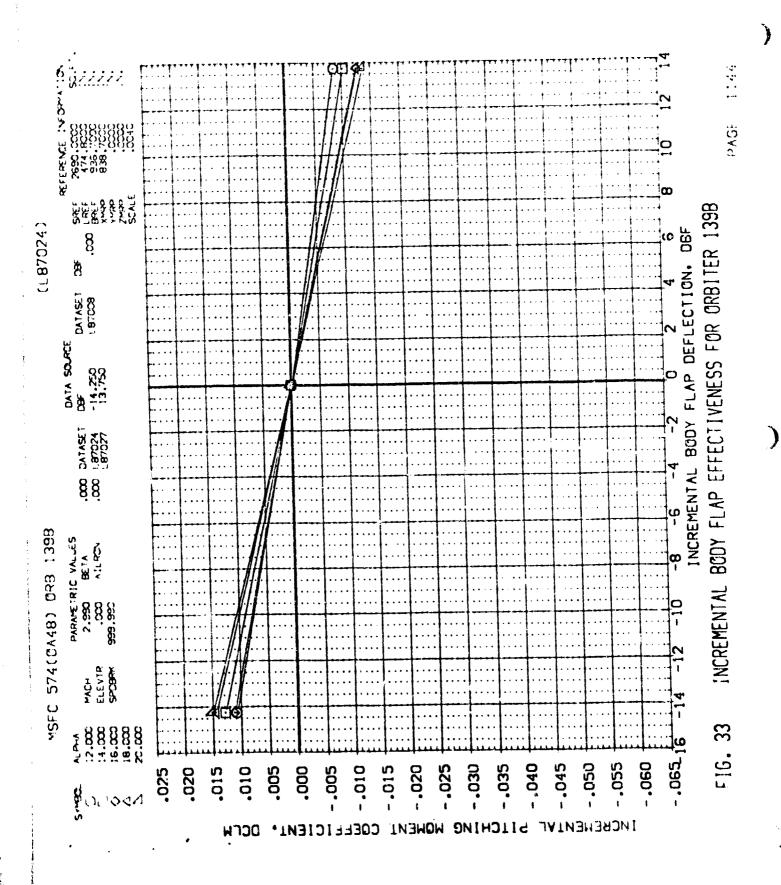


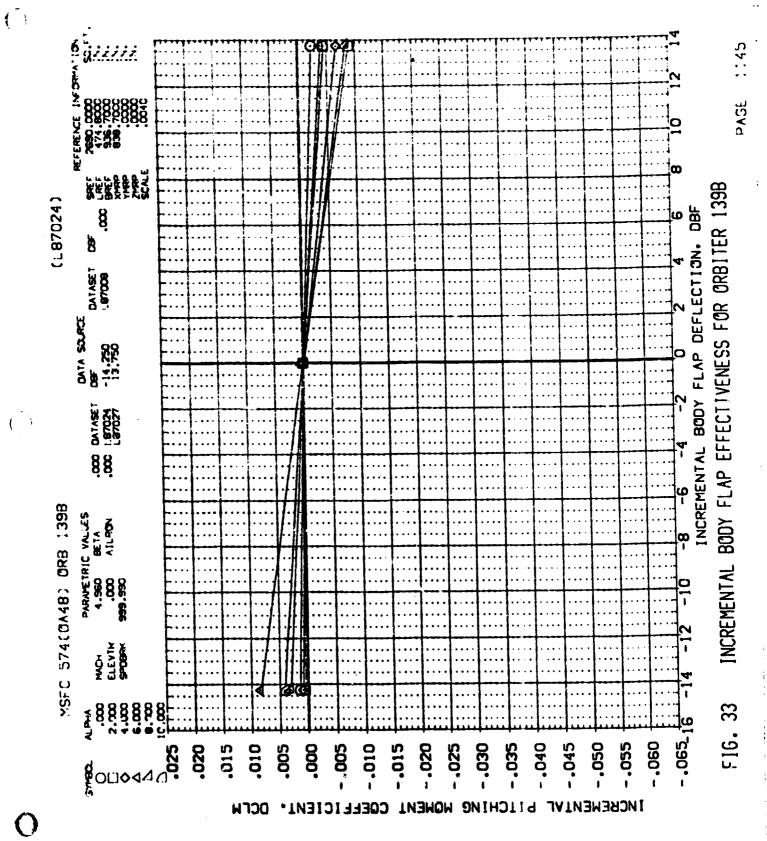


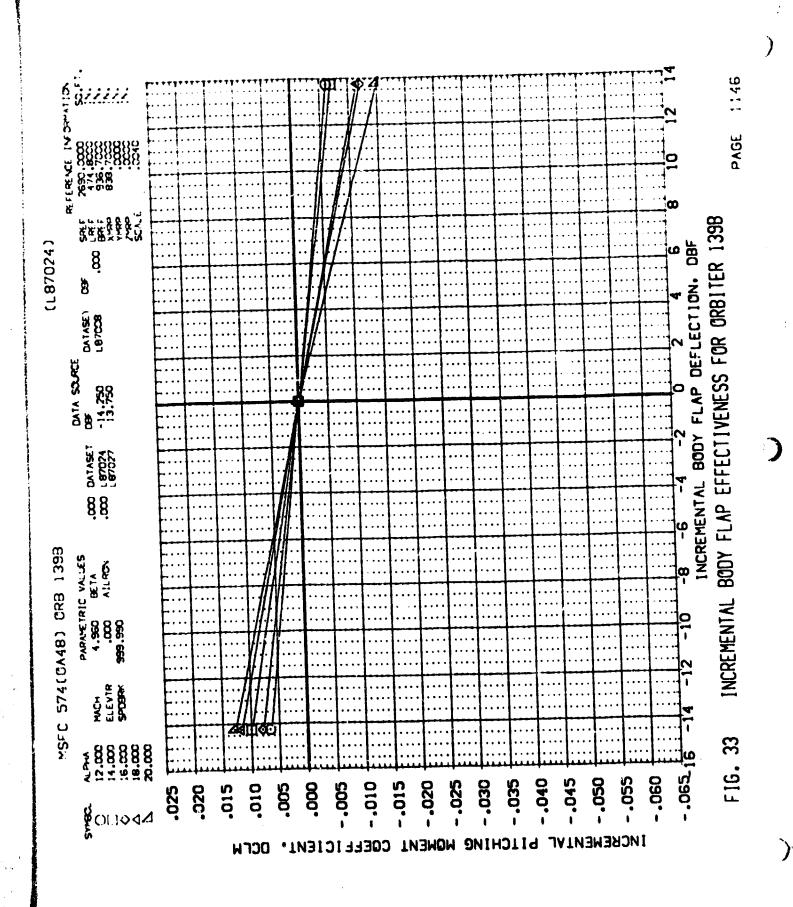


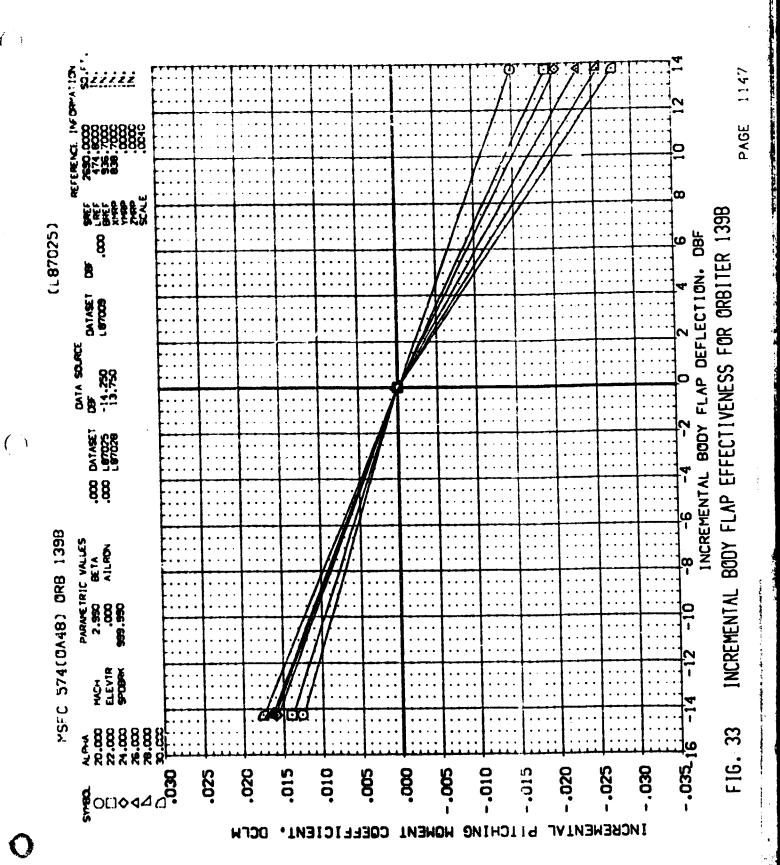


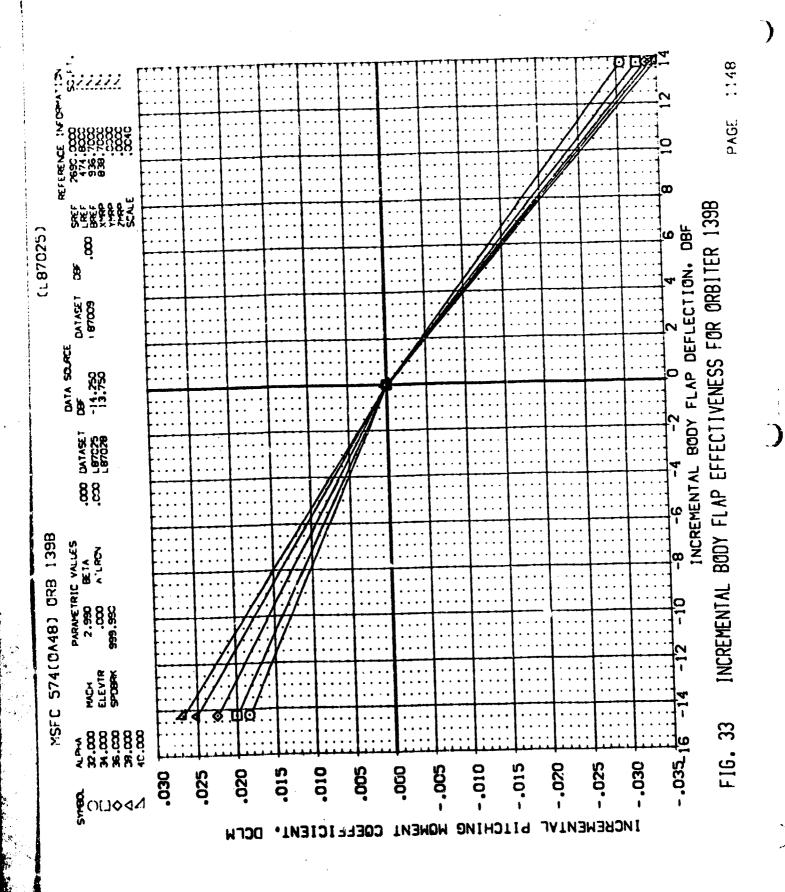




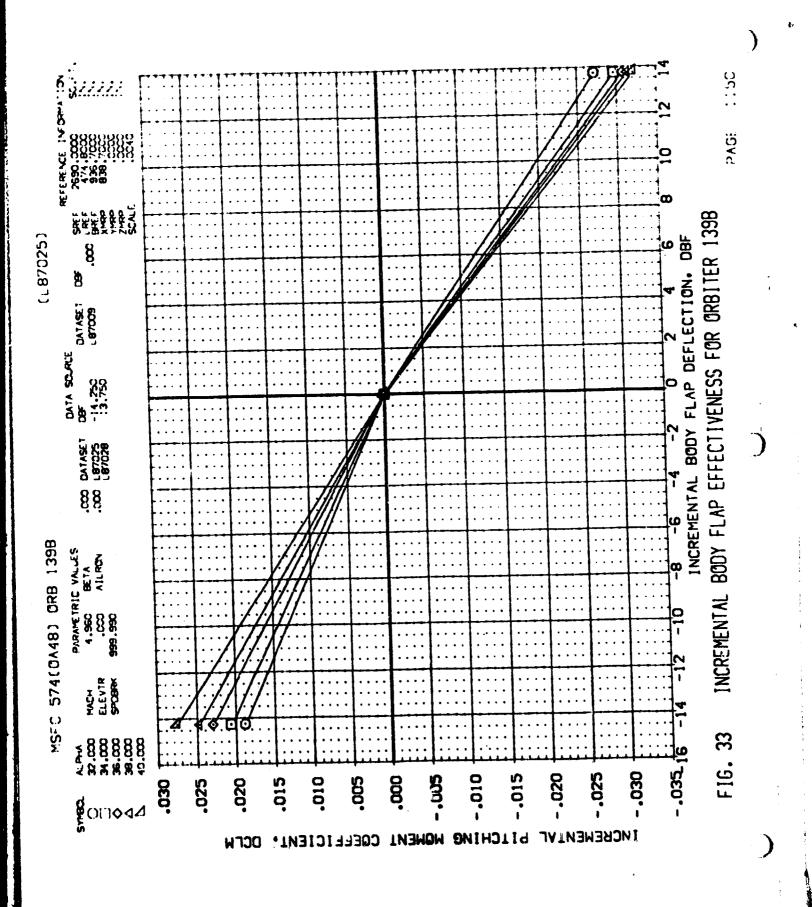


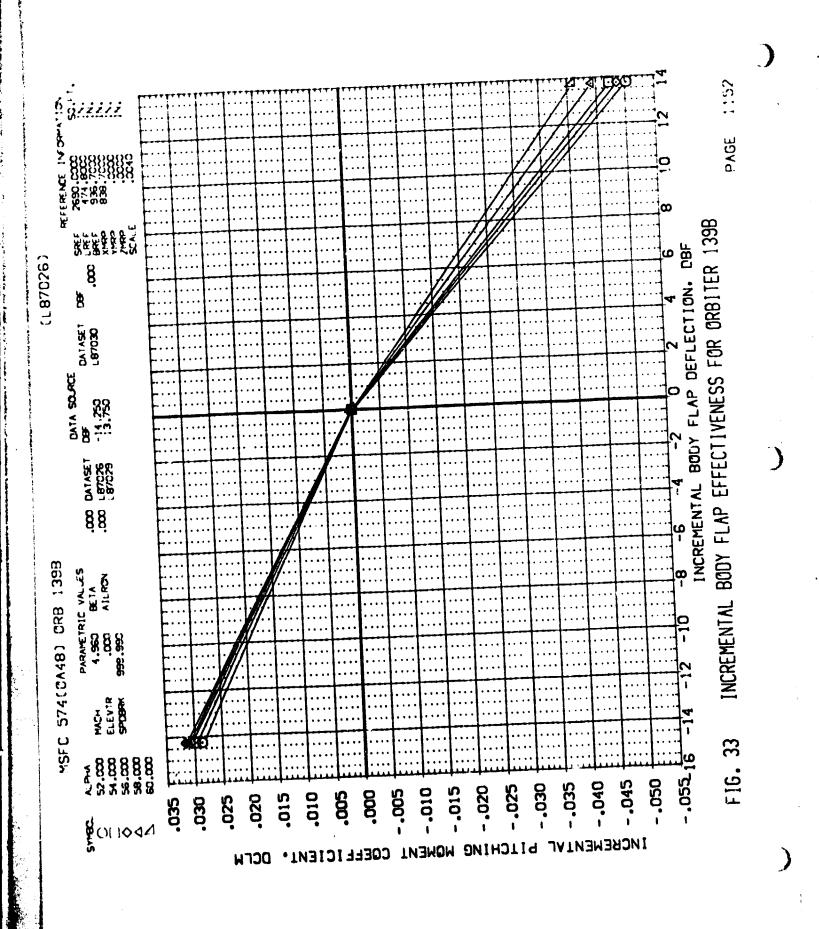


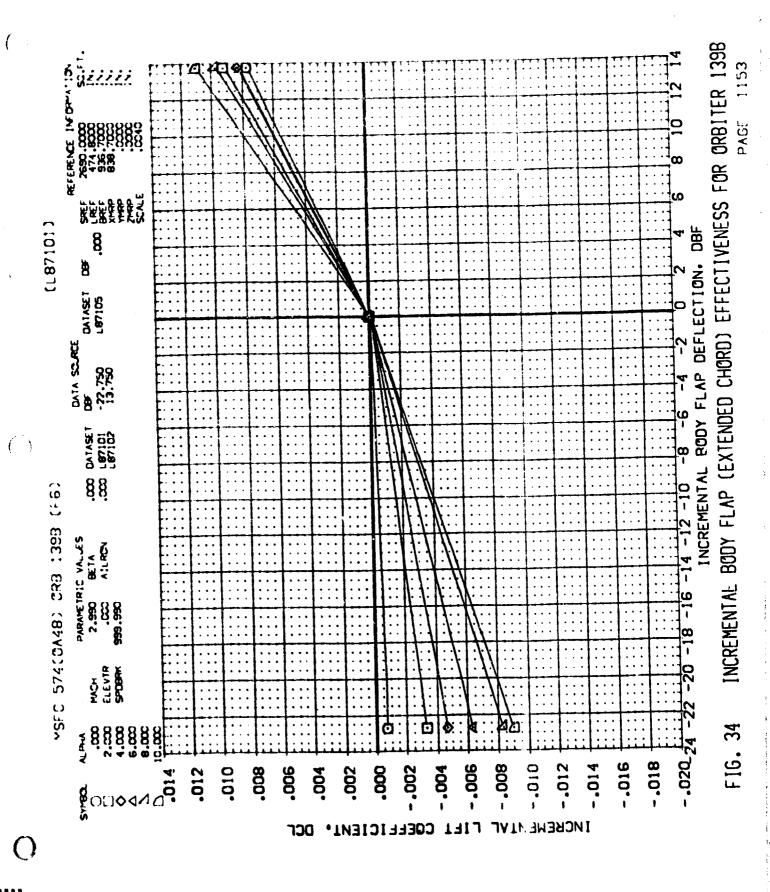


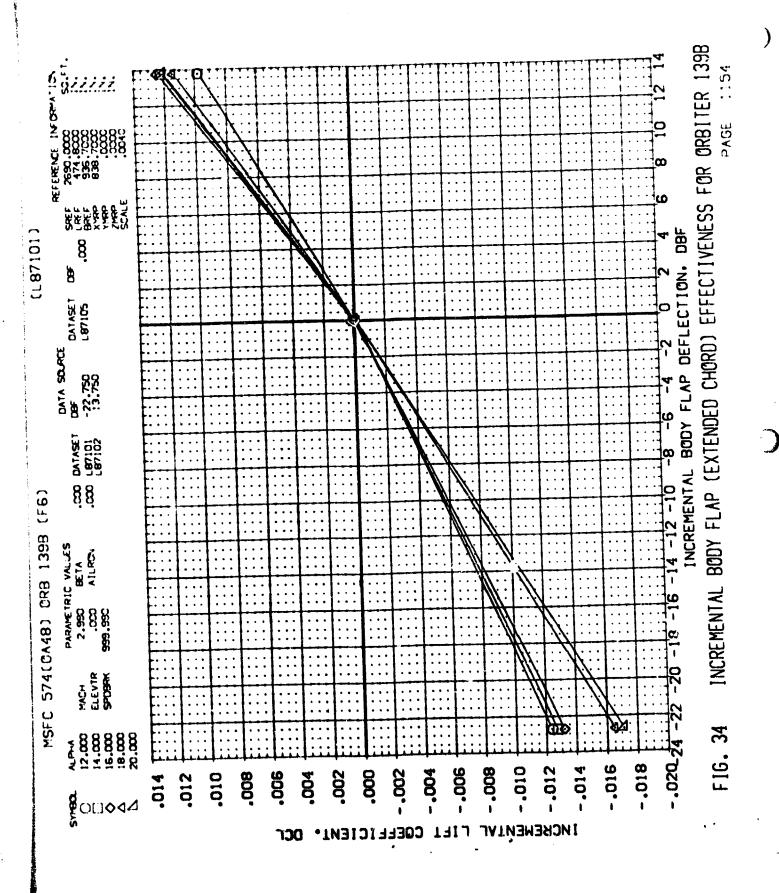


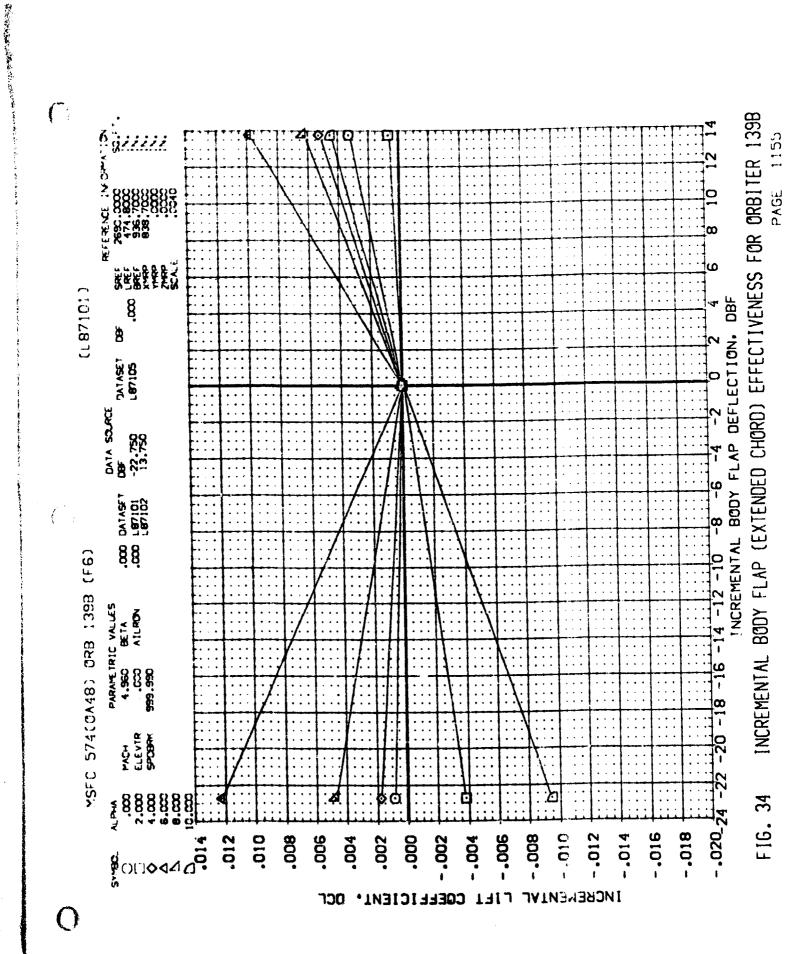
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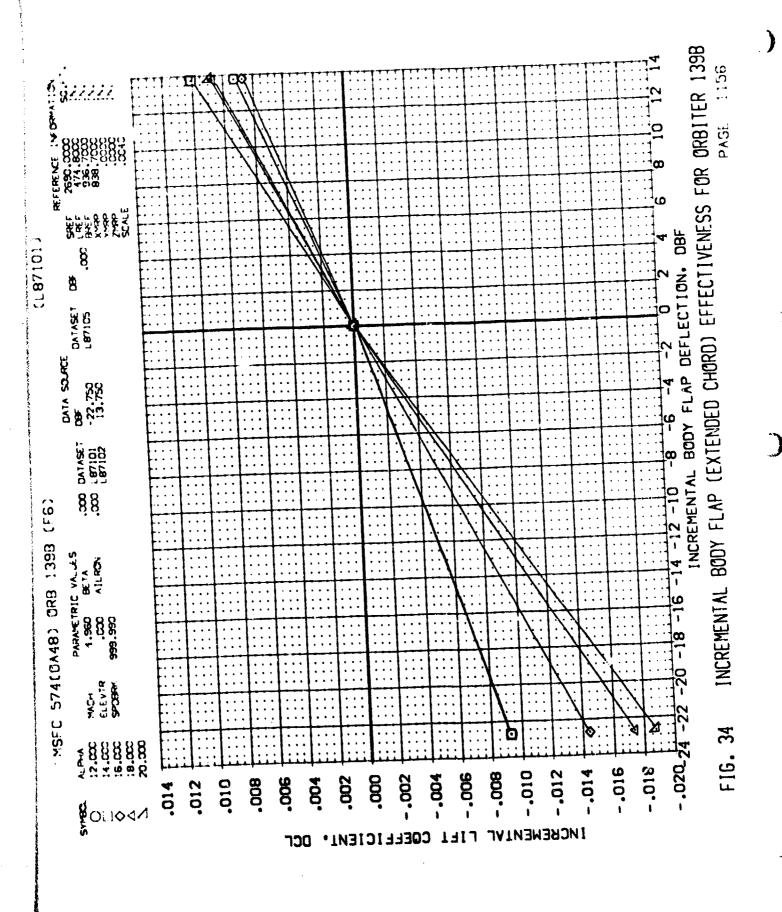


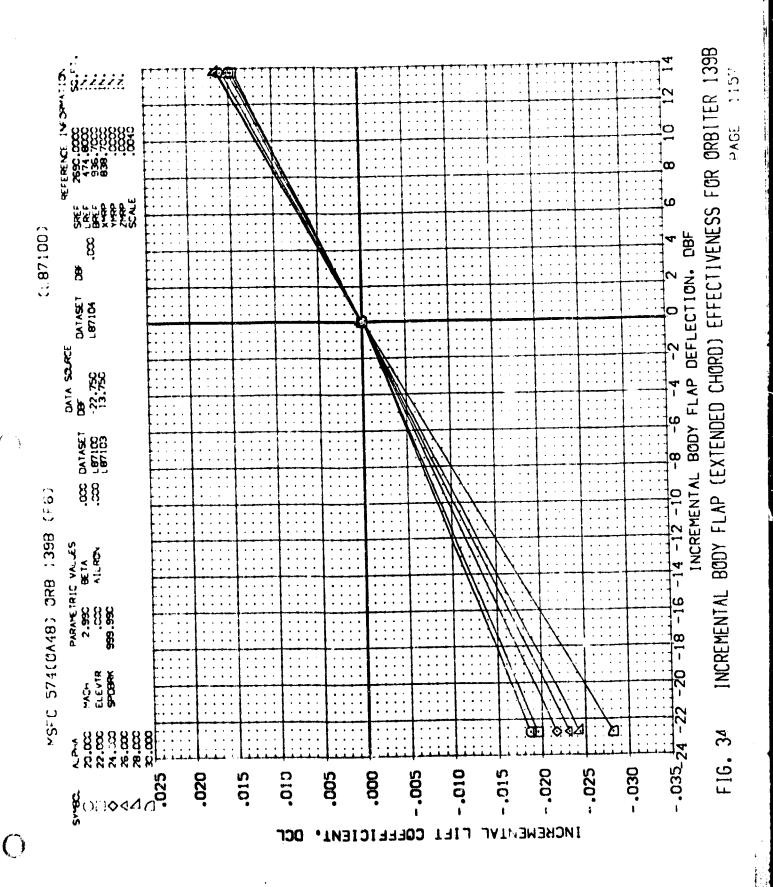


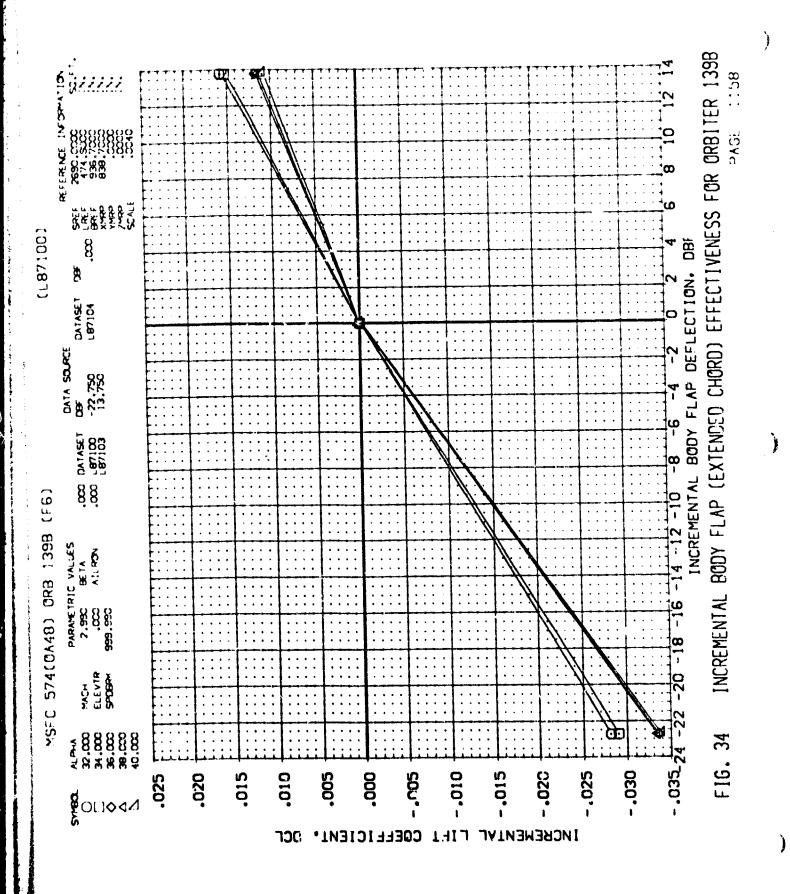






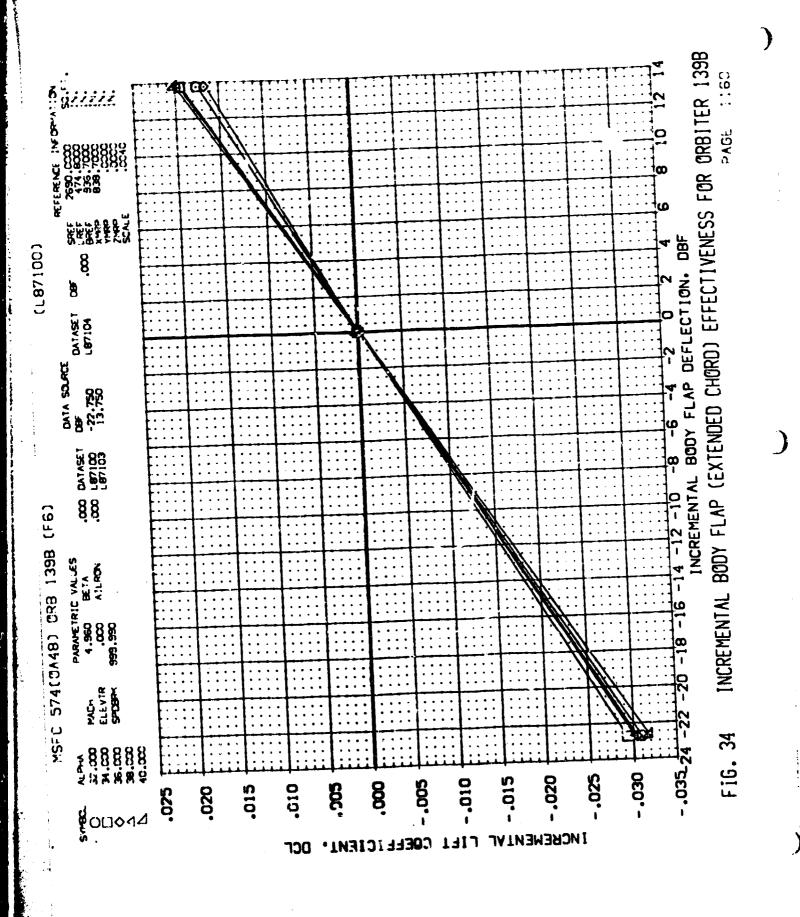




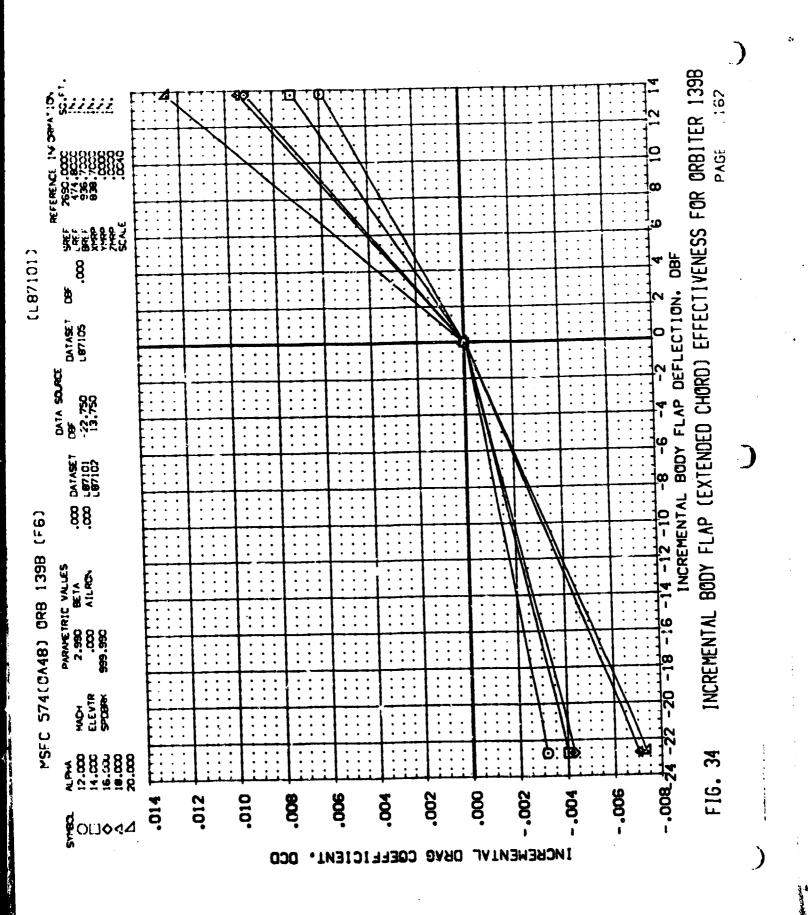


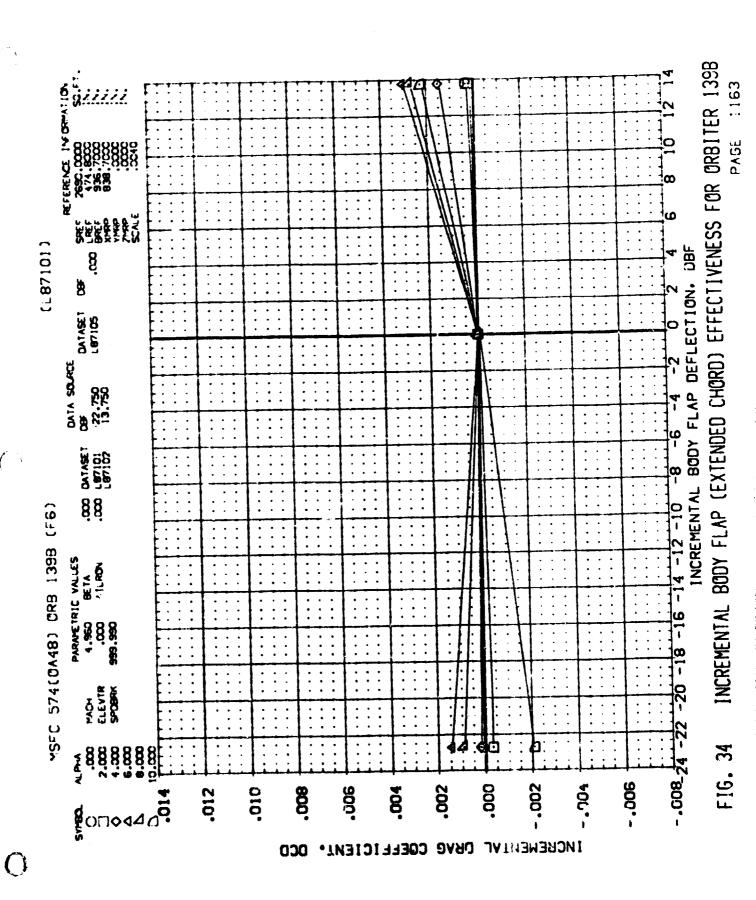
INCREMENTAL BODY FLAP (EXTENDED CHORD) EFFECTIVENESS FOR ORBITER 1398 85.488 865.6888 868.8888 868.8888 PAGE KAR SEE (1001731) 8 INCREMENTAL BODY FLAP DEFLECTION. DBF DATASET L87104 2474 SQ.PCE 13.750 13.750 2474SET 187100 187103 FIG. 34 220 .015 .010 .005 80. -.010 -.020 -.025 -.005 -.030 -.015 LIFT COEFFICIENT.

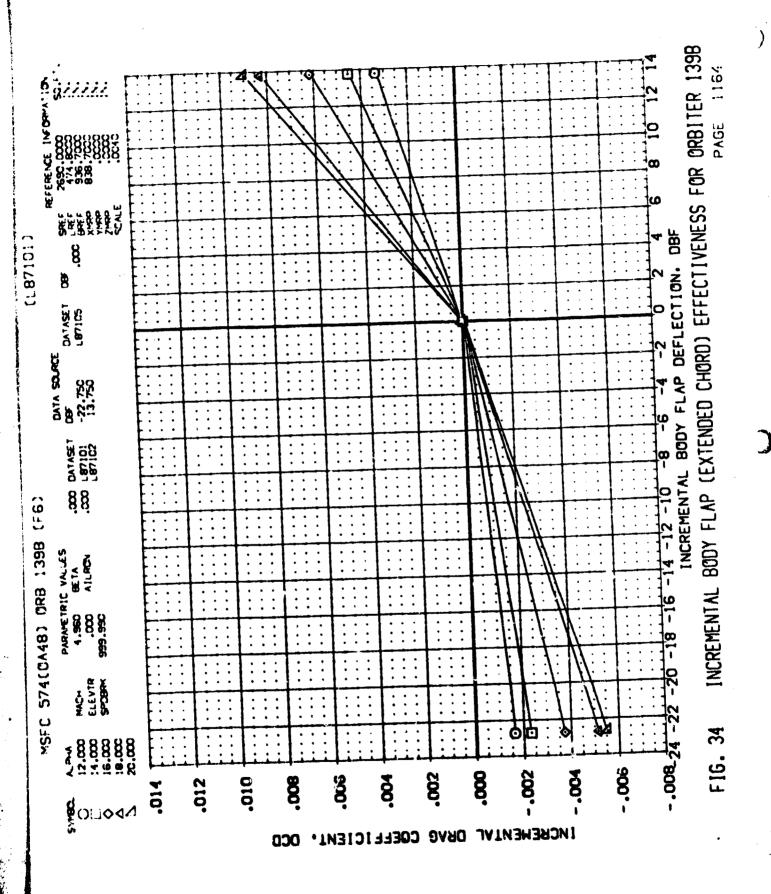
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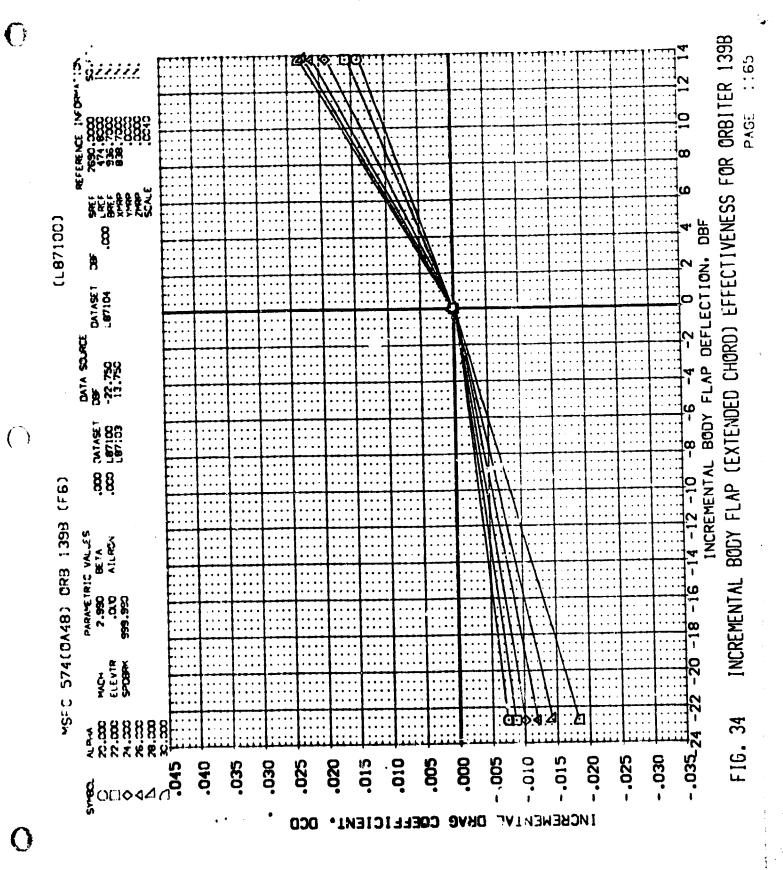


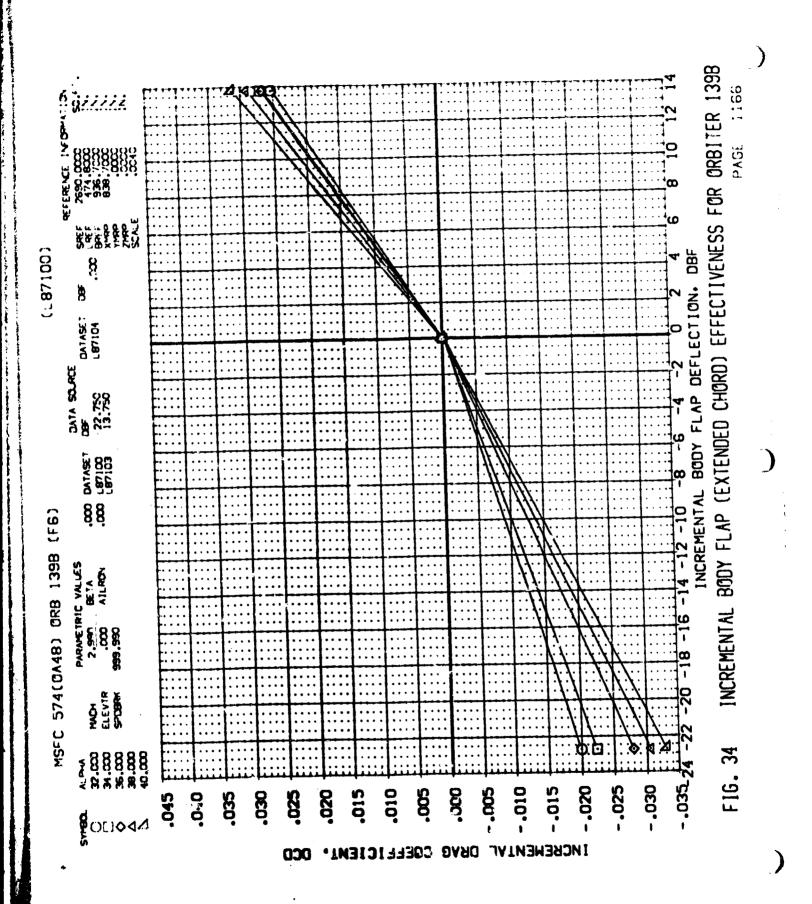
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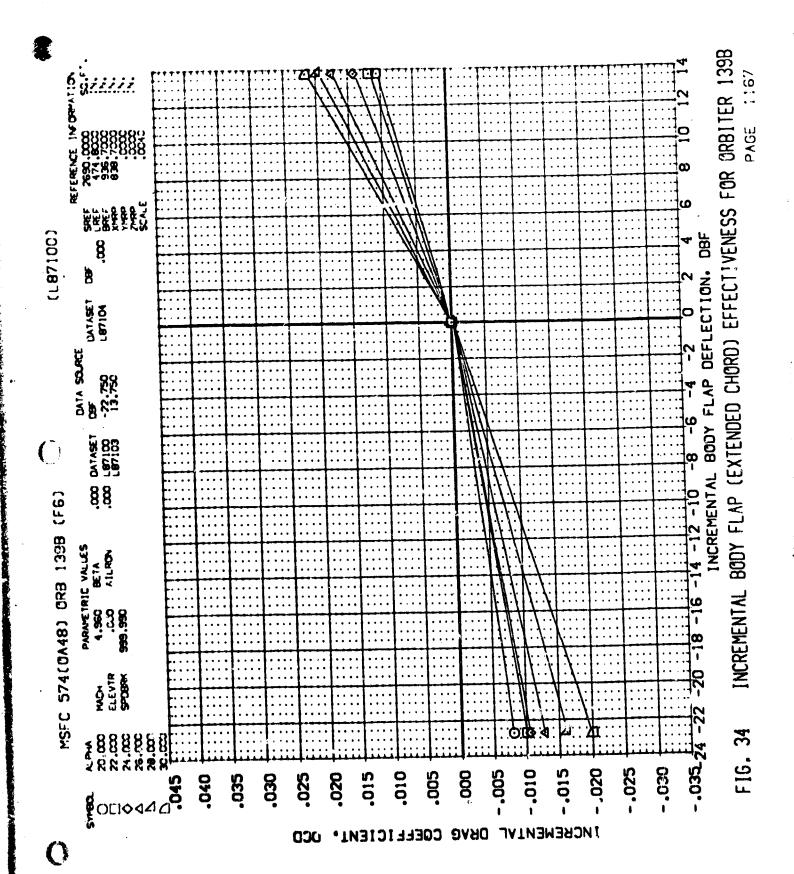


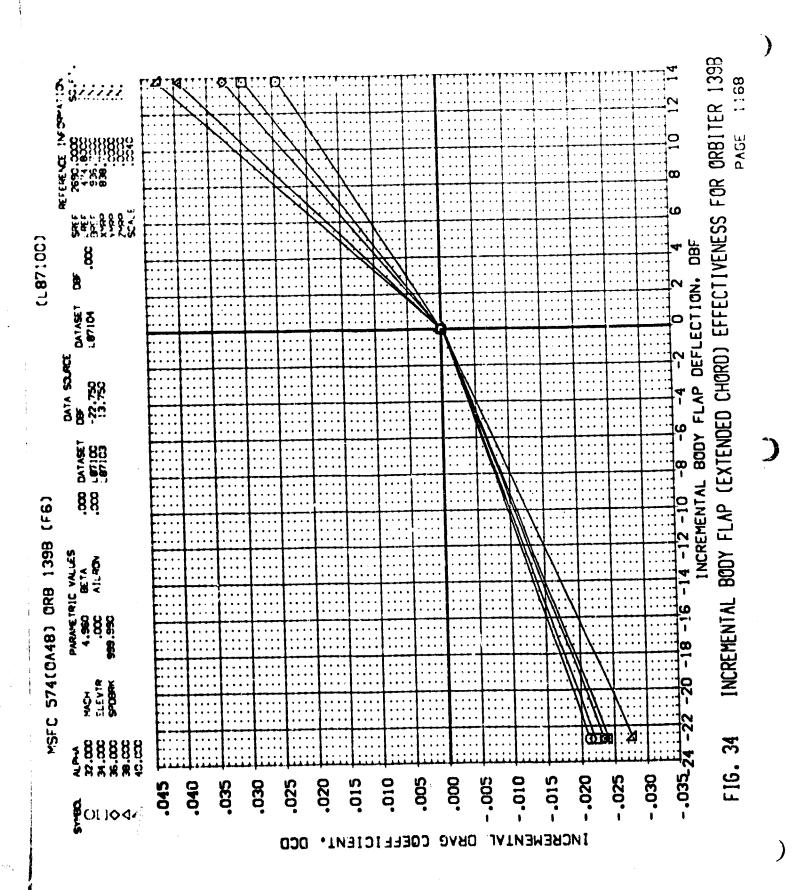


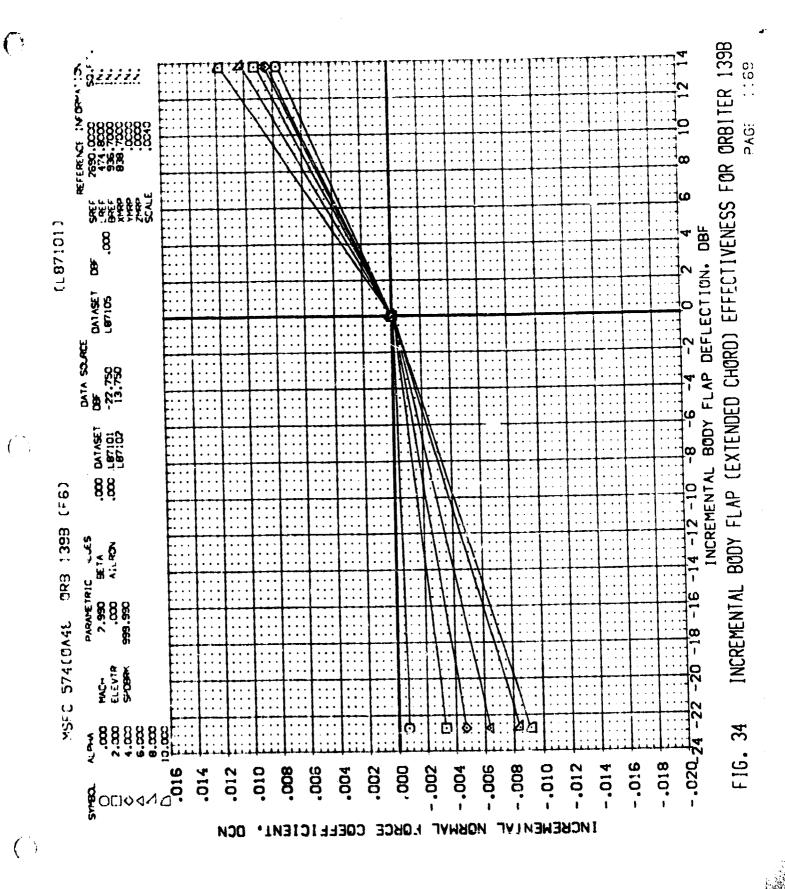


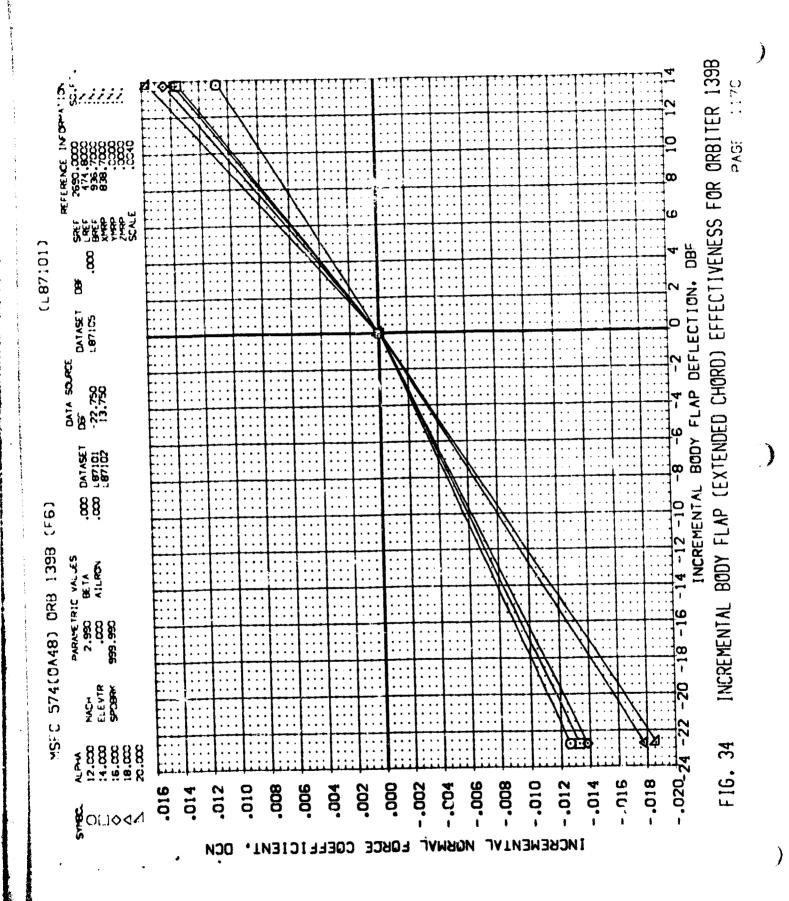


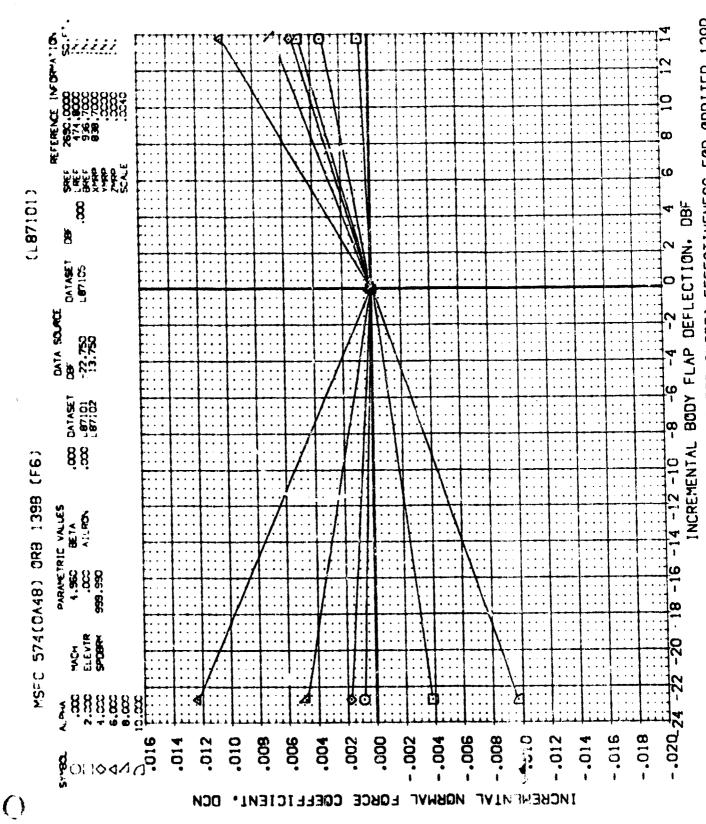




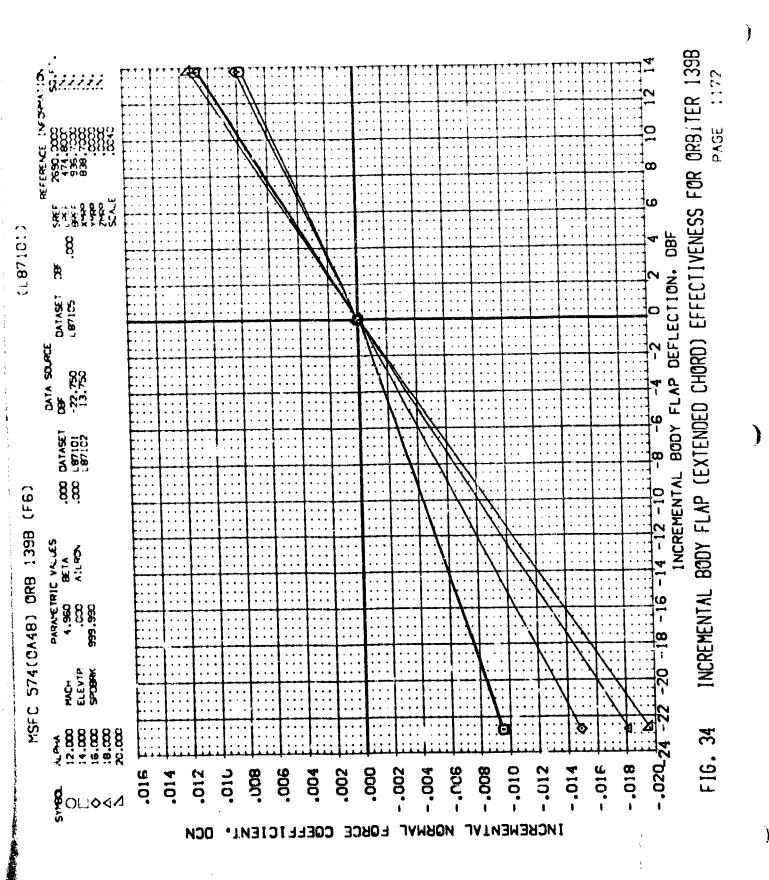




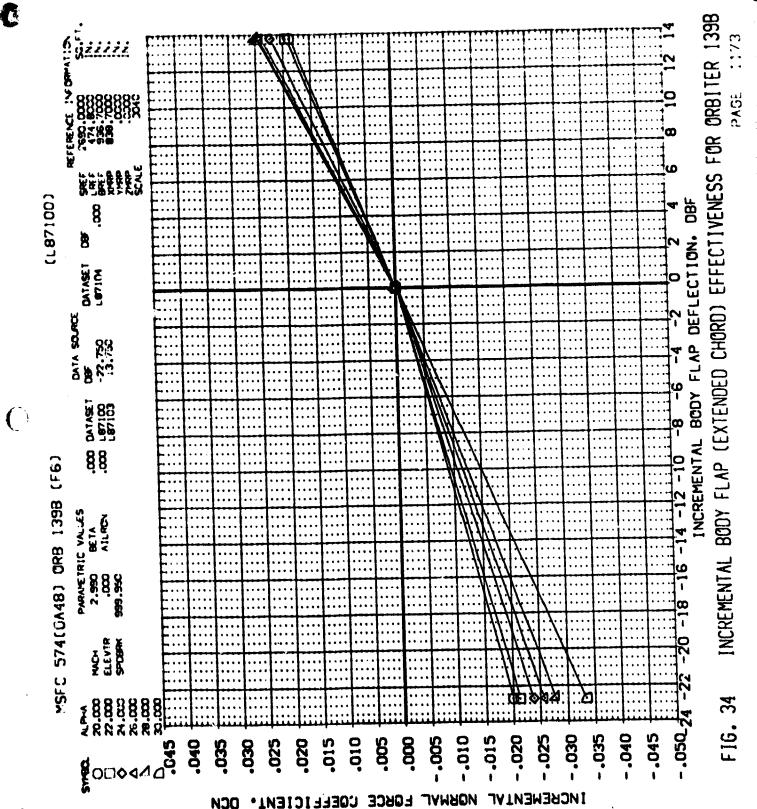


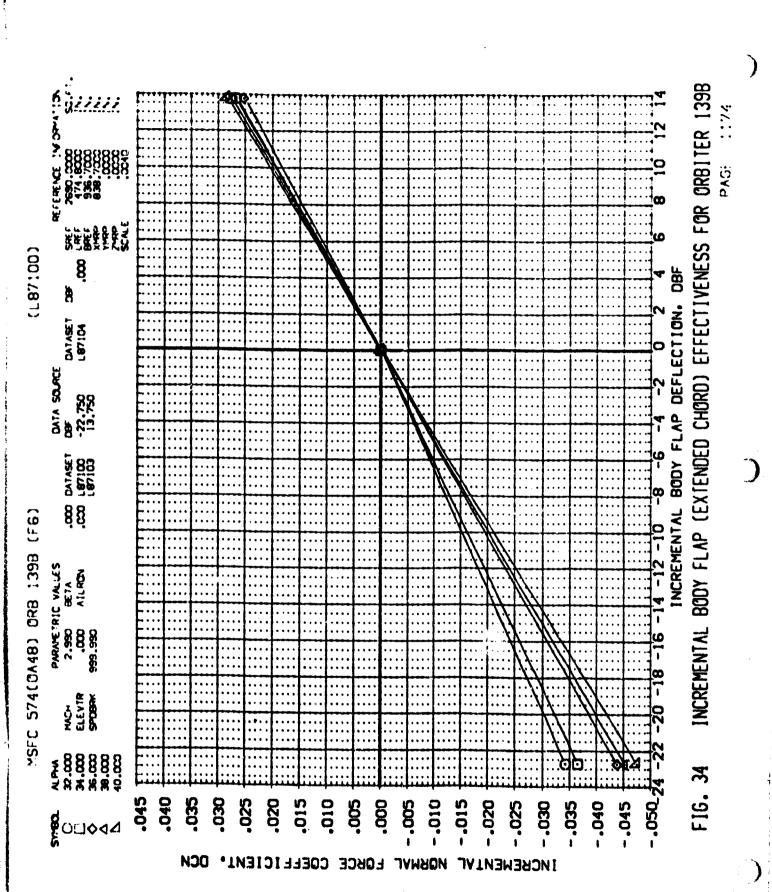


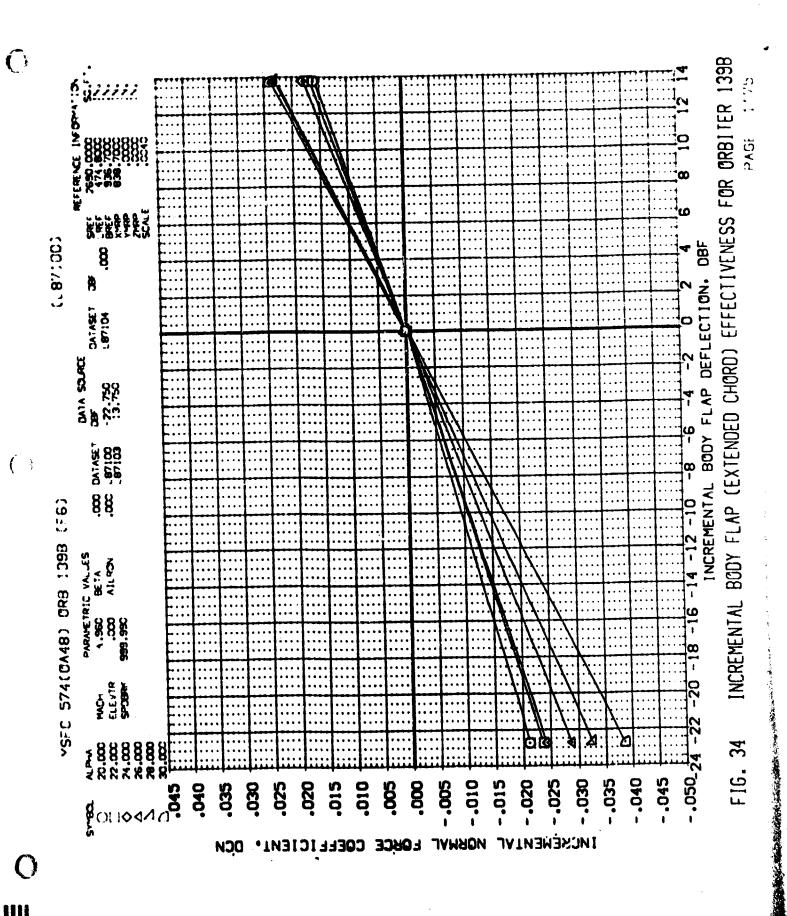
INCREMENTAL BODY FLAP (EXTENDED CHORD) EFFECTIVENESS FOR ORBITER 1398 F16.34

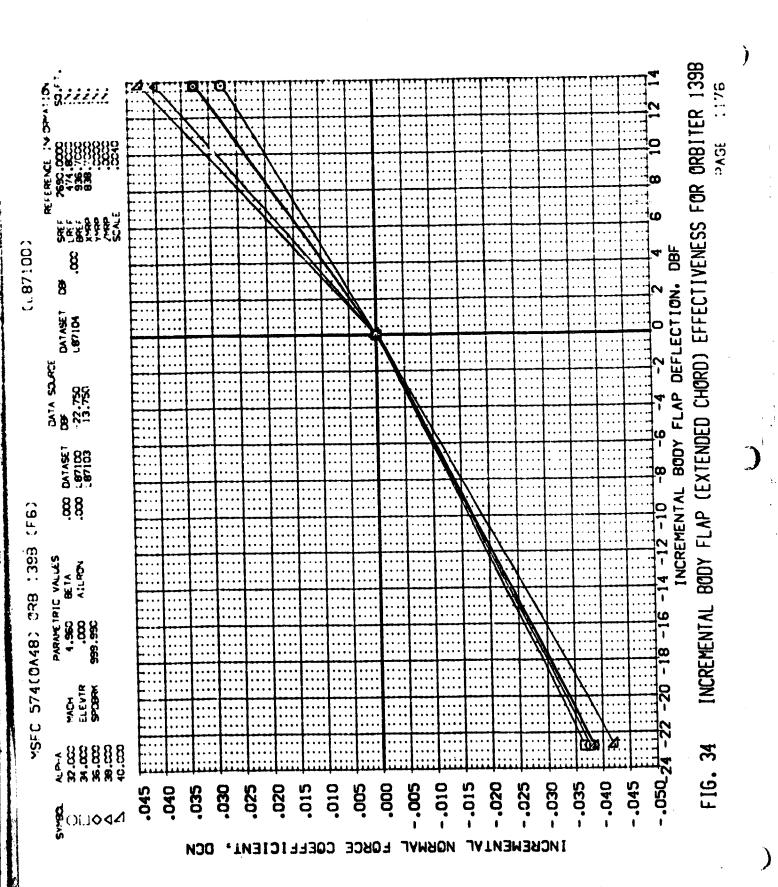


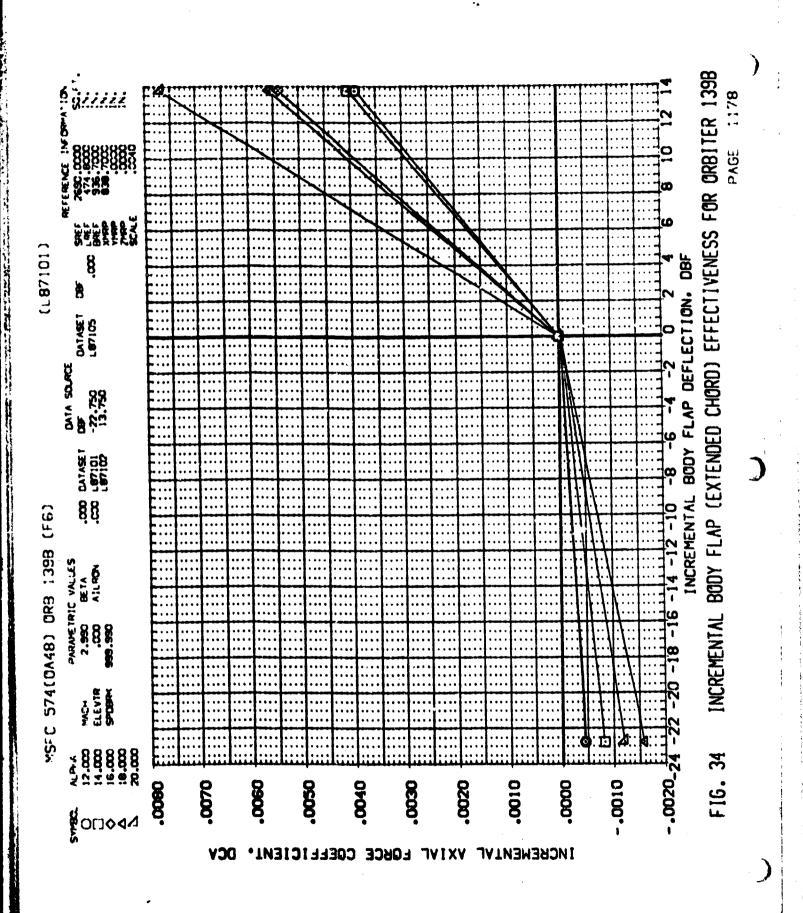
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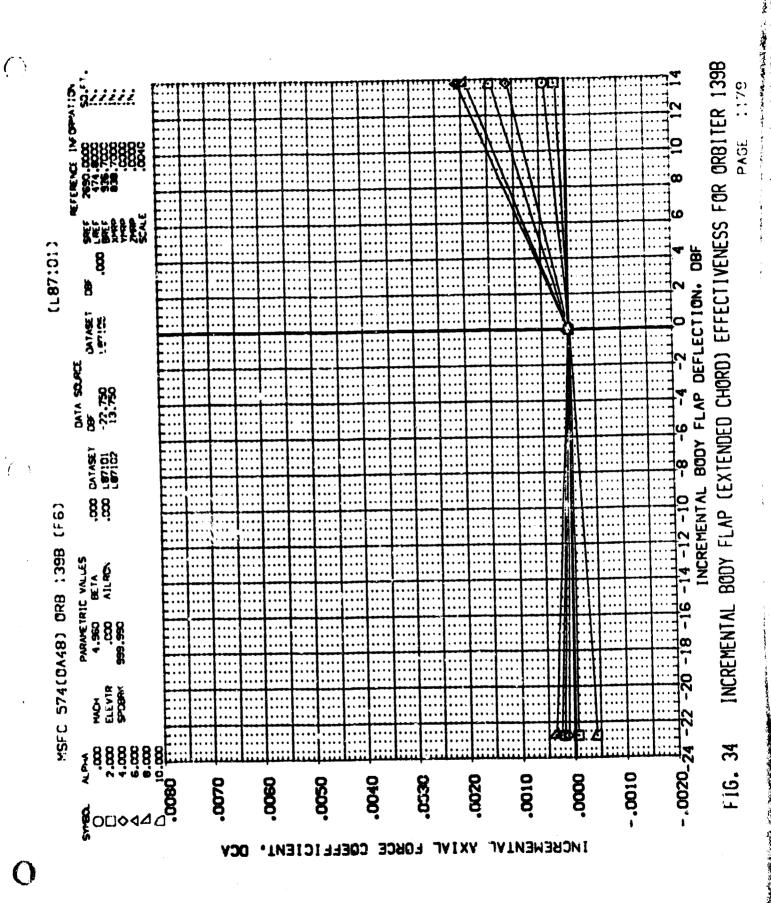


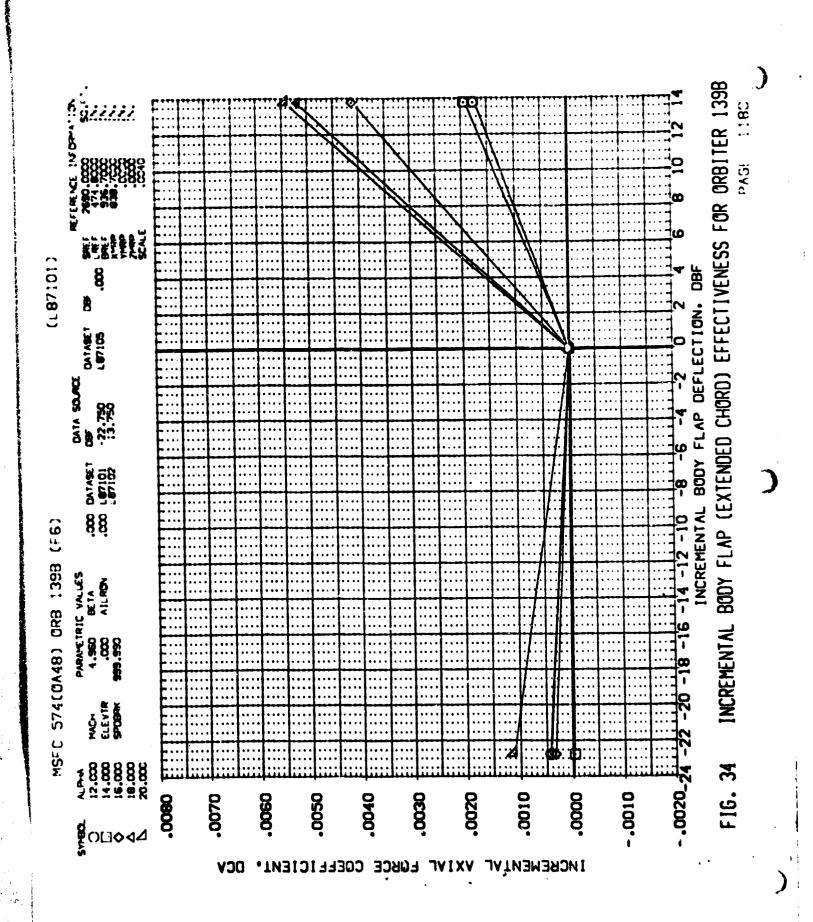


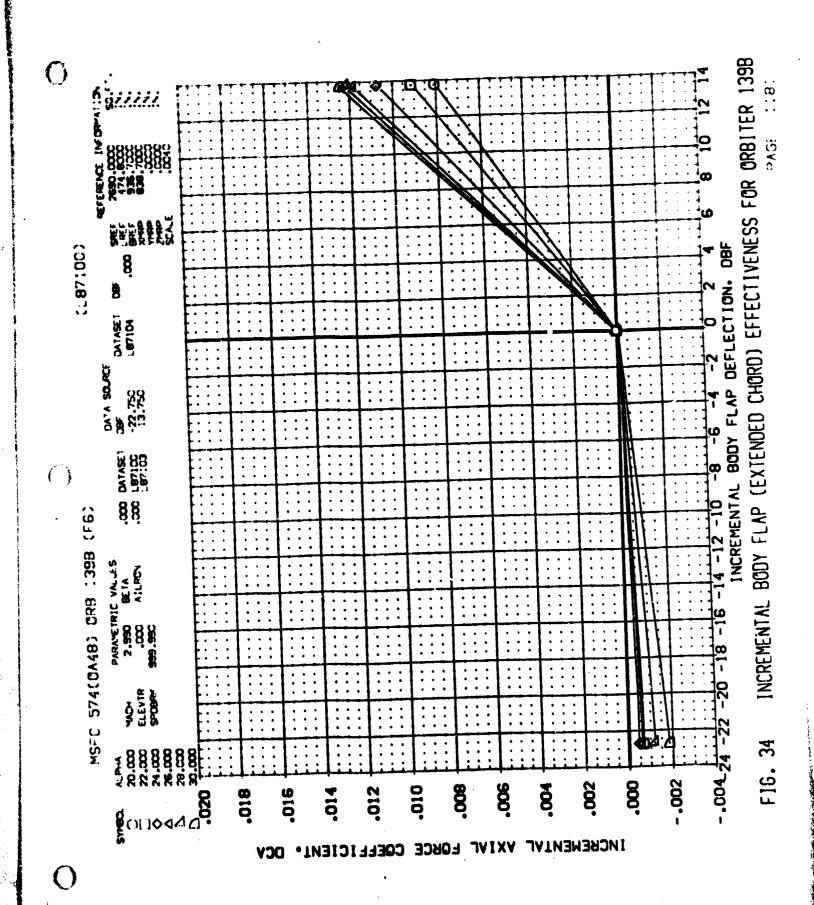


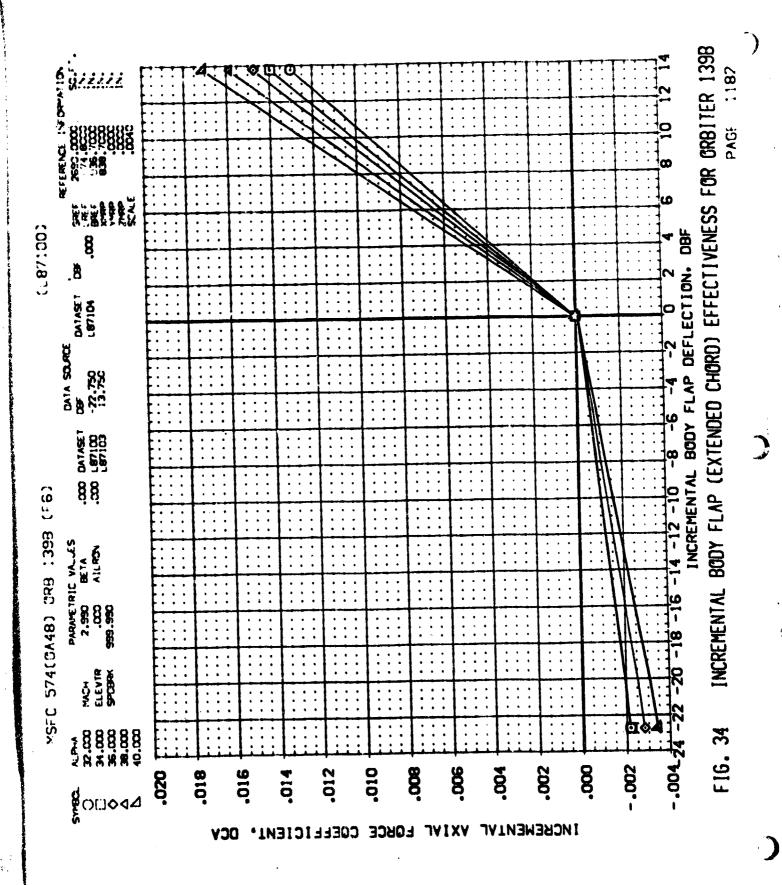


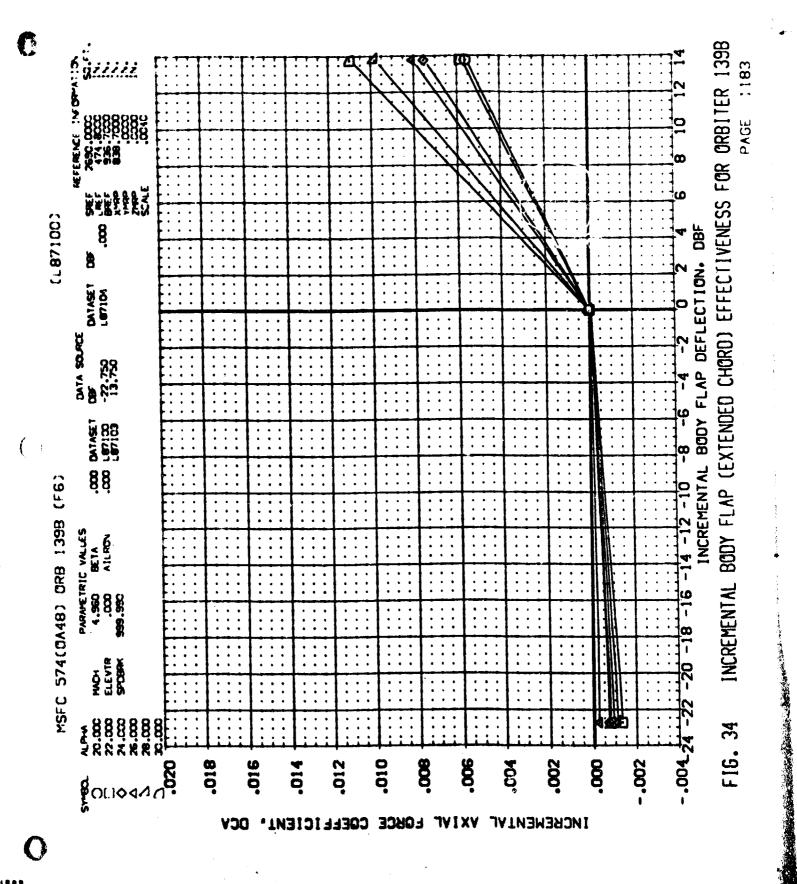


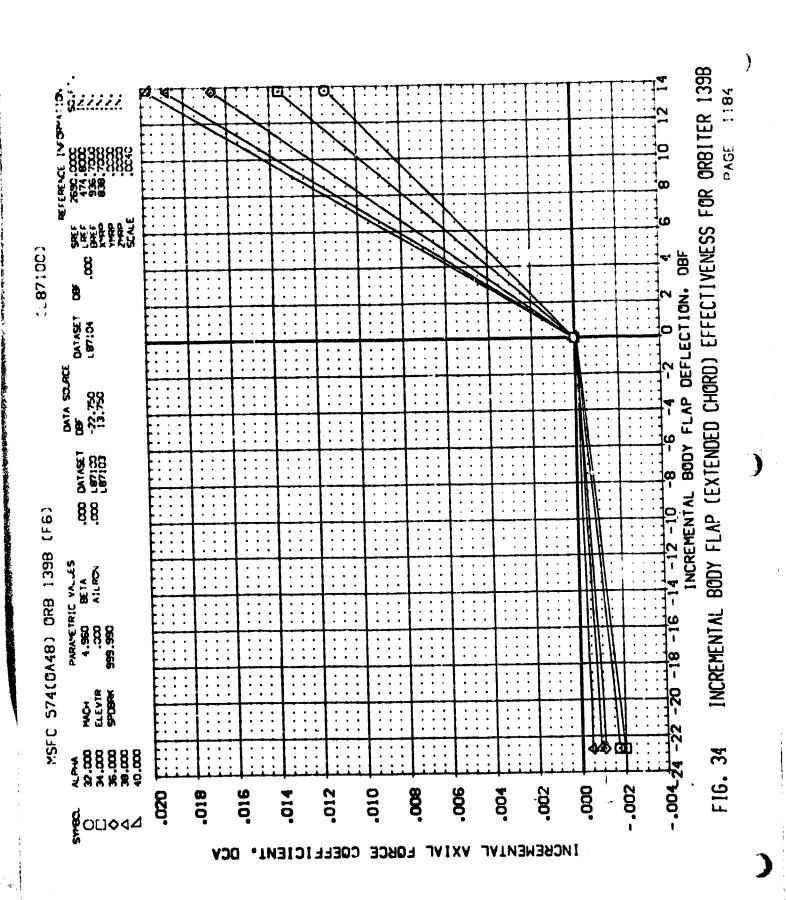


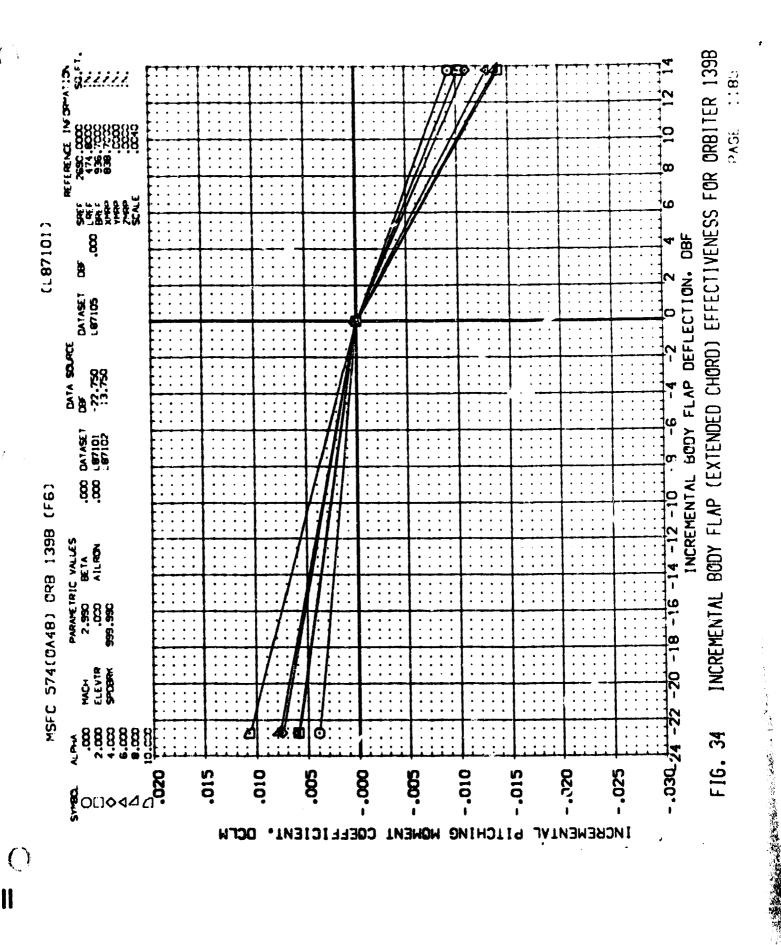


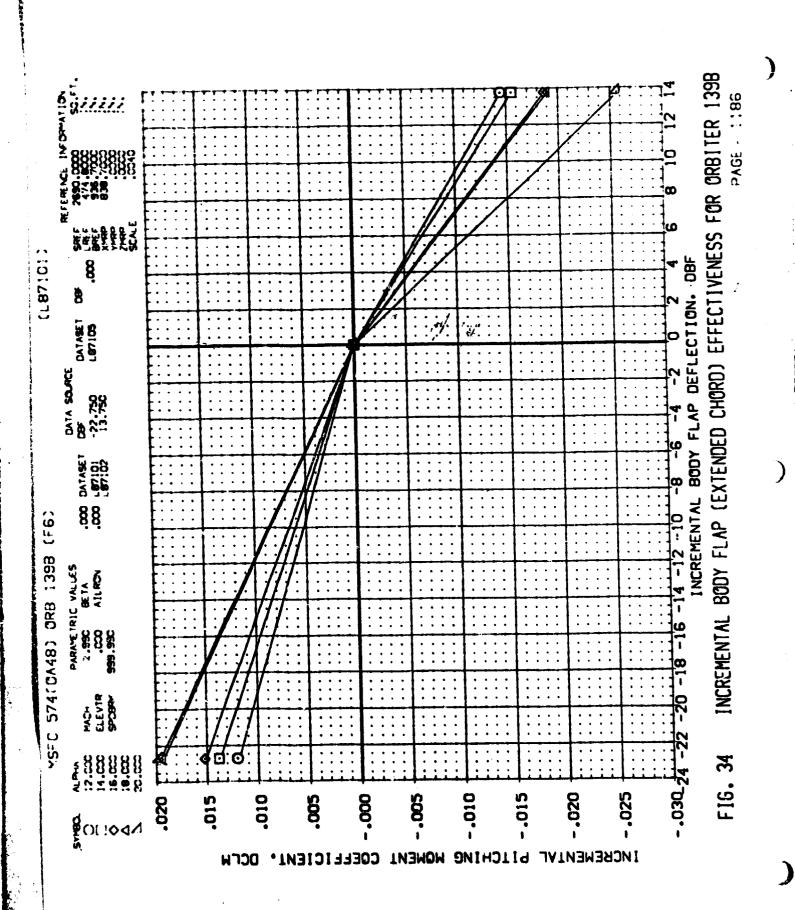






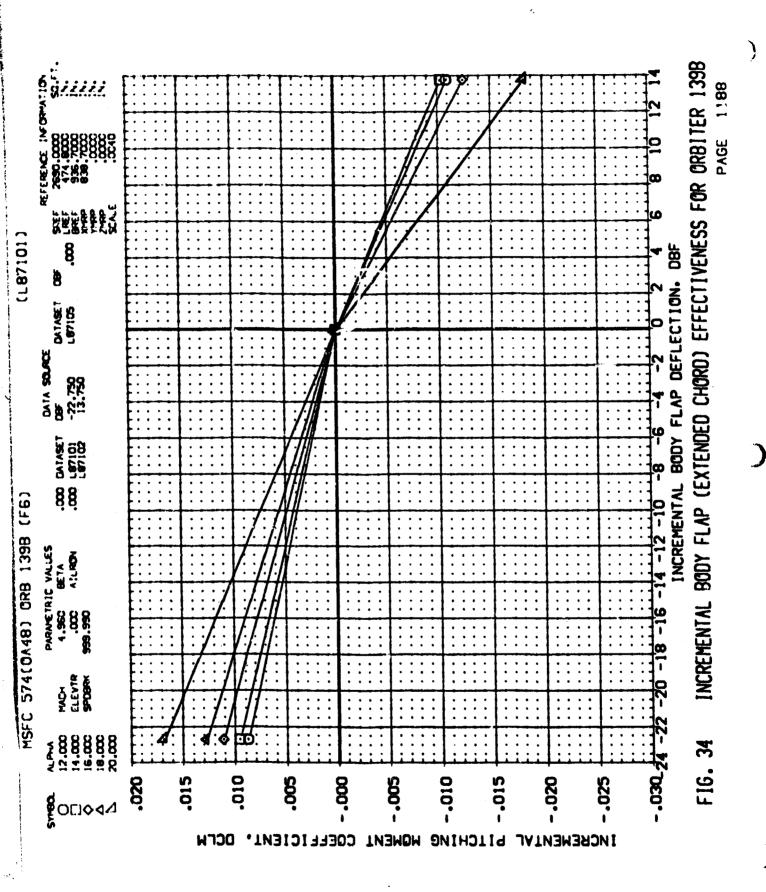


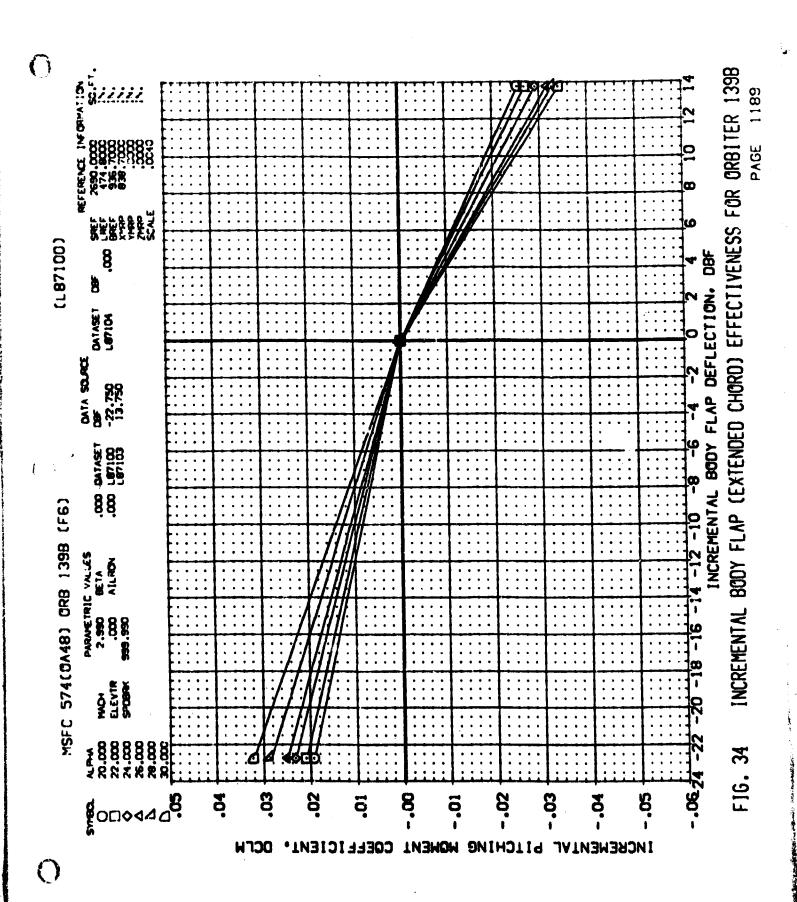


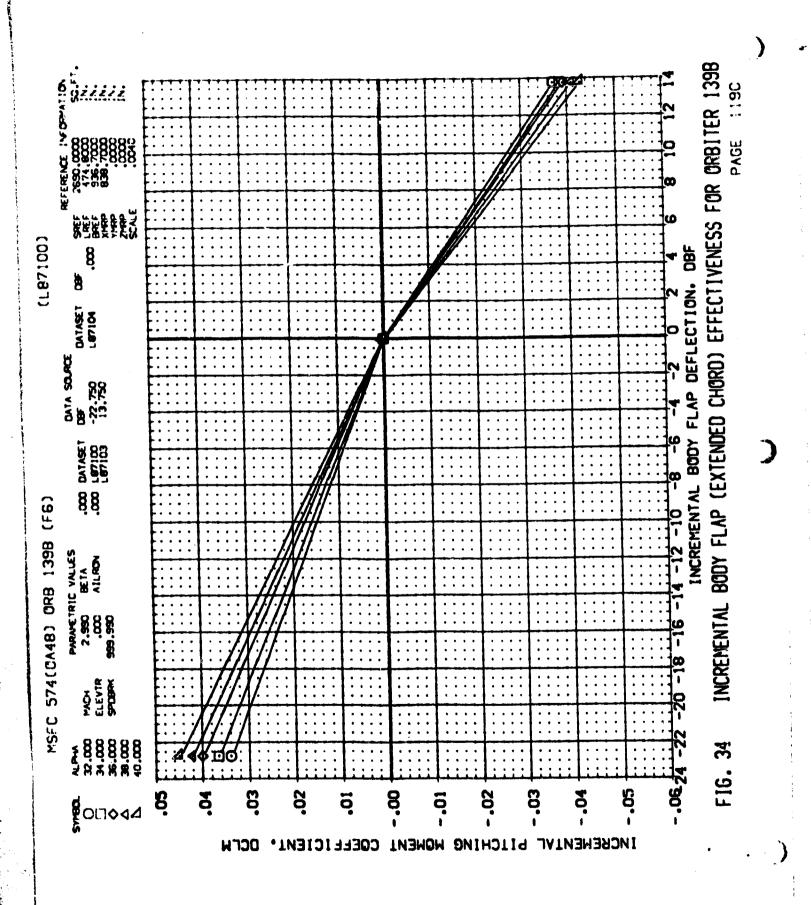


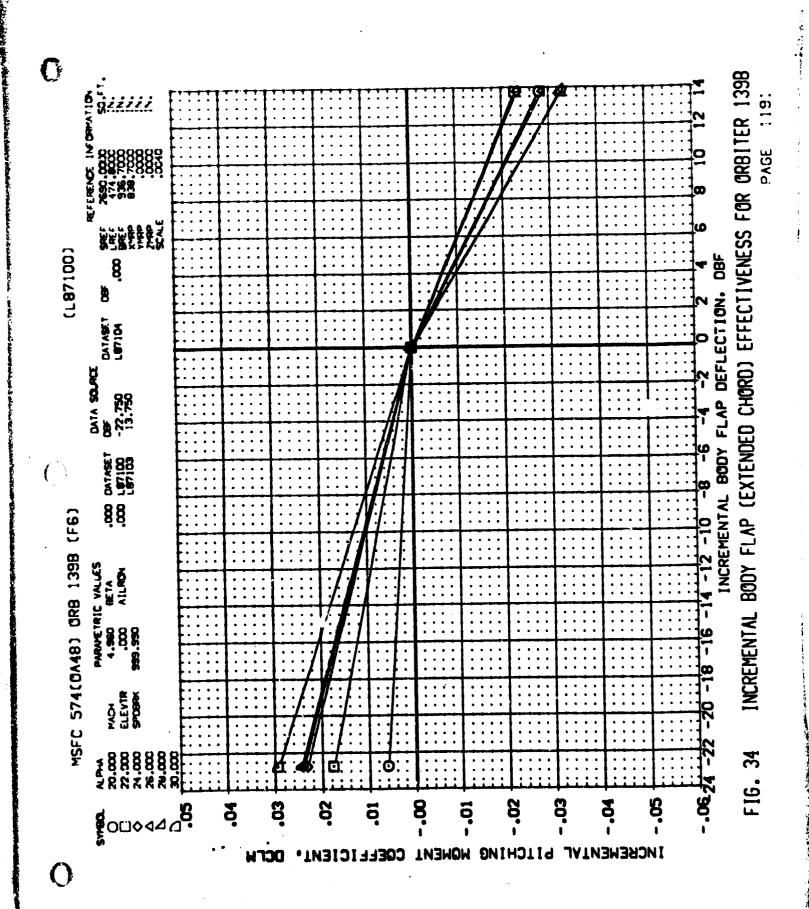
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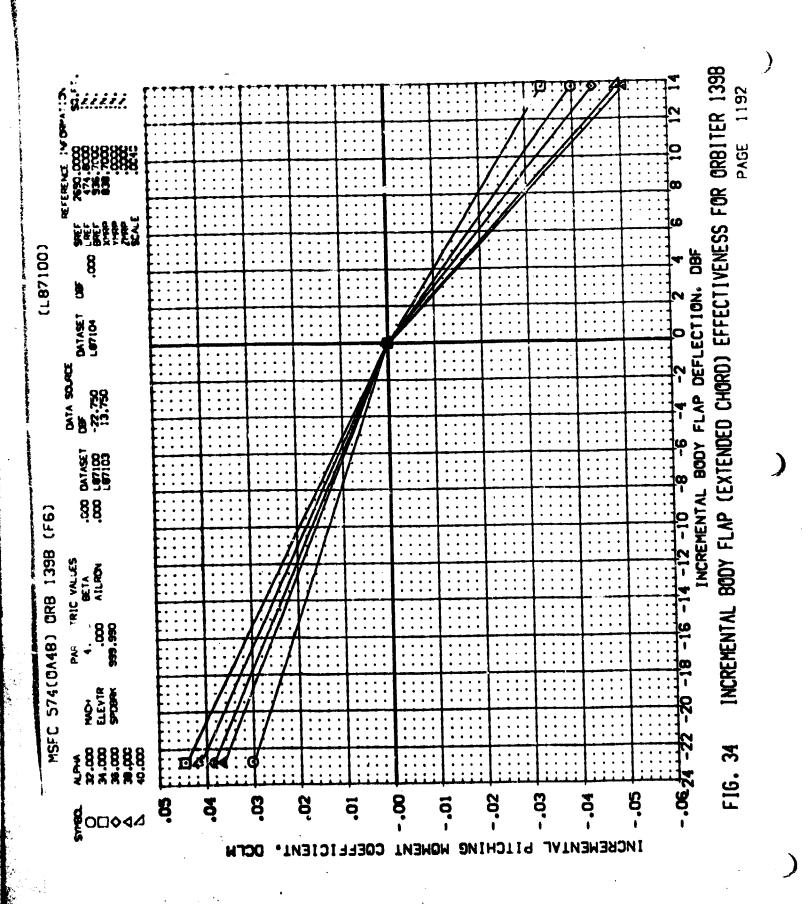
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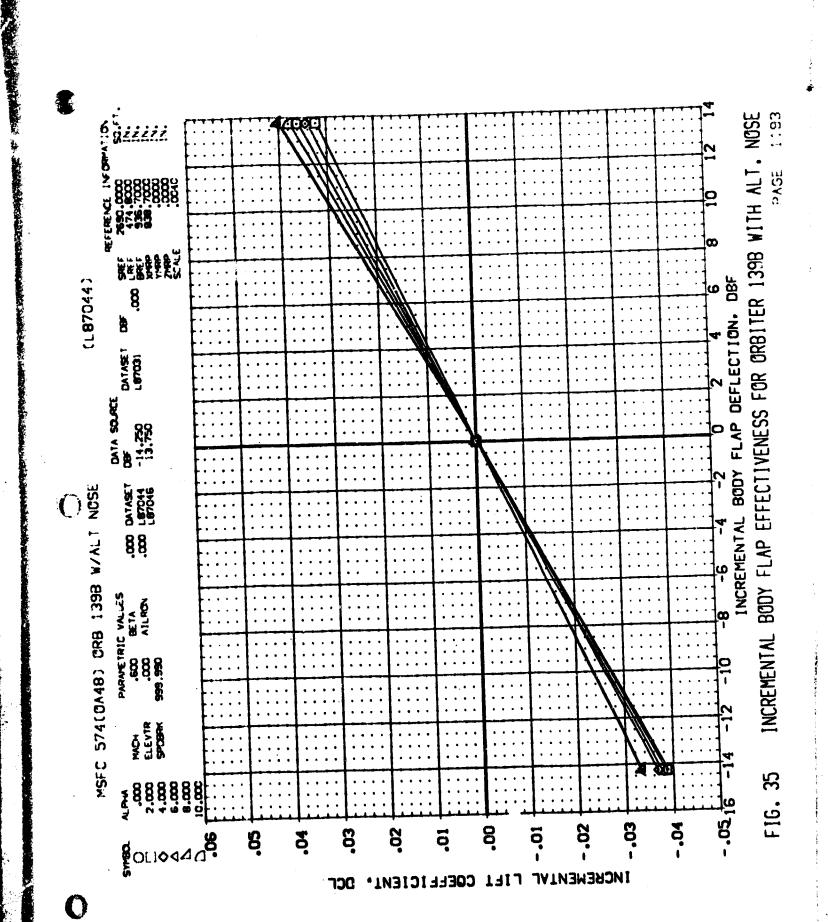


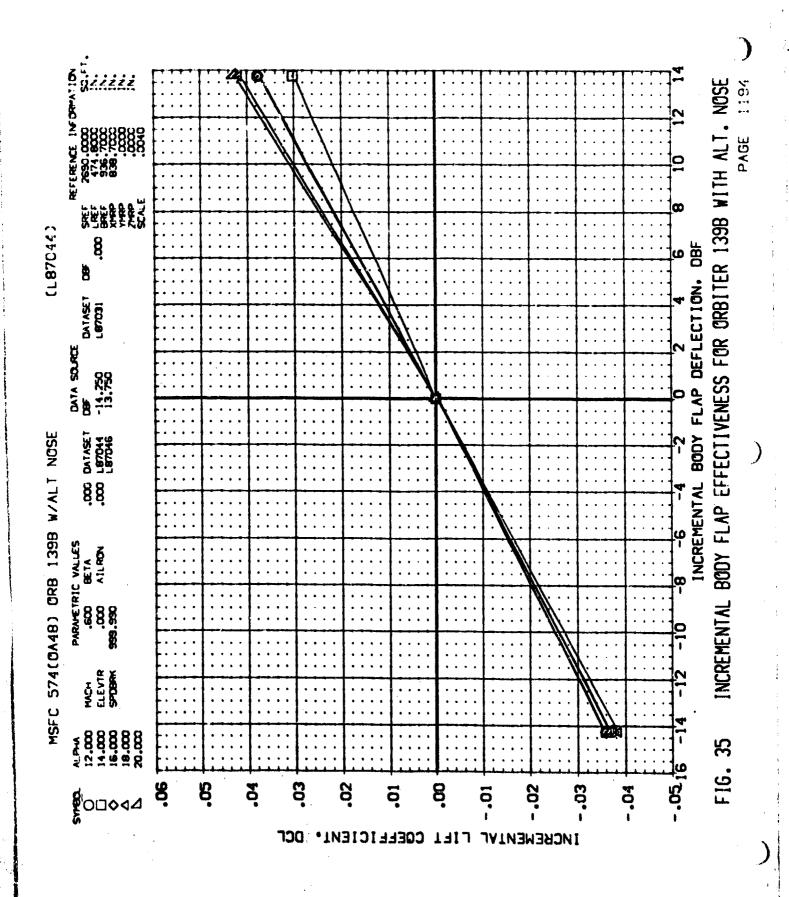


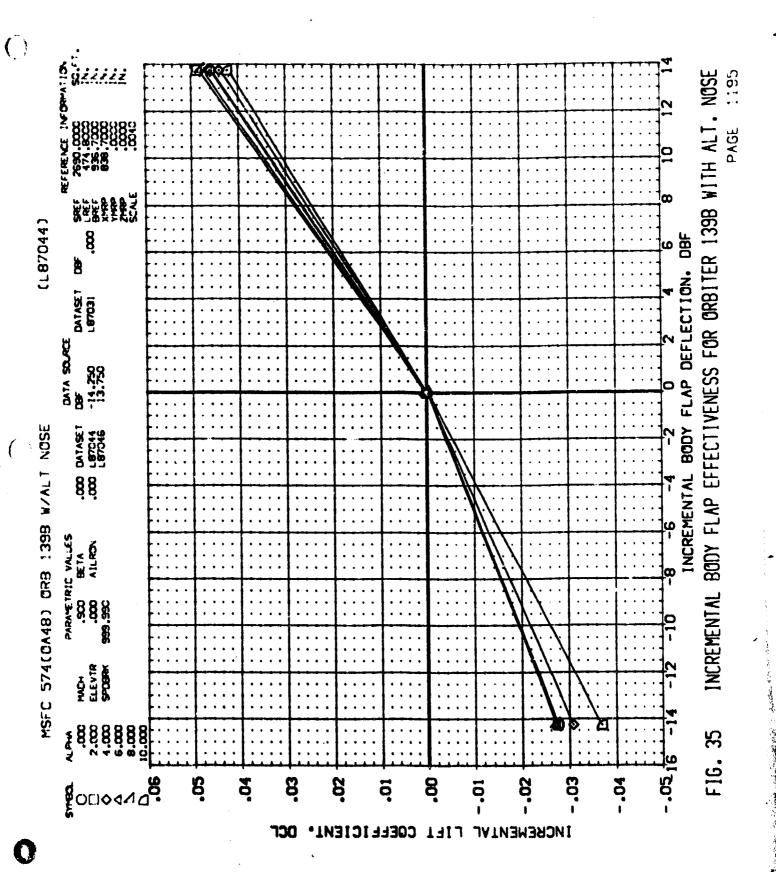


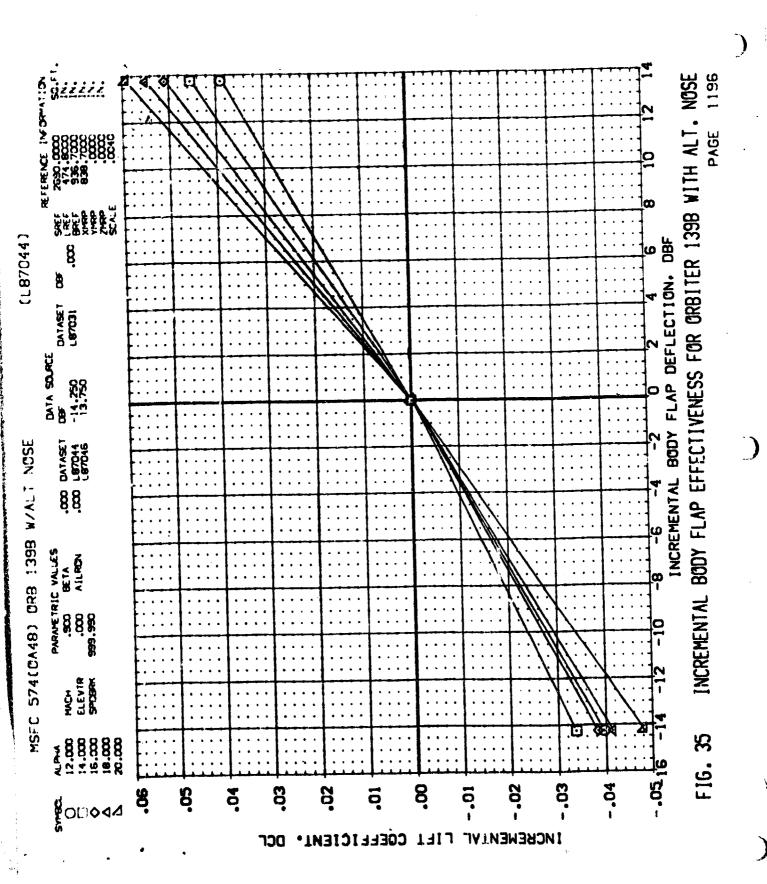






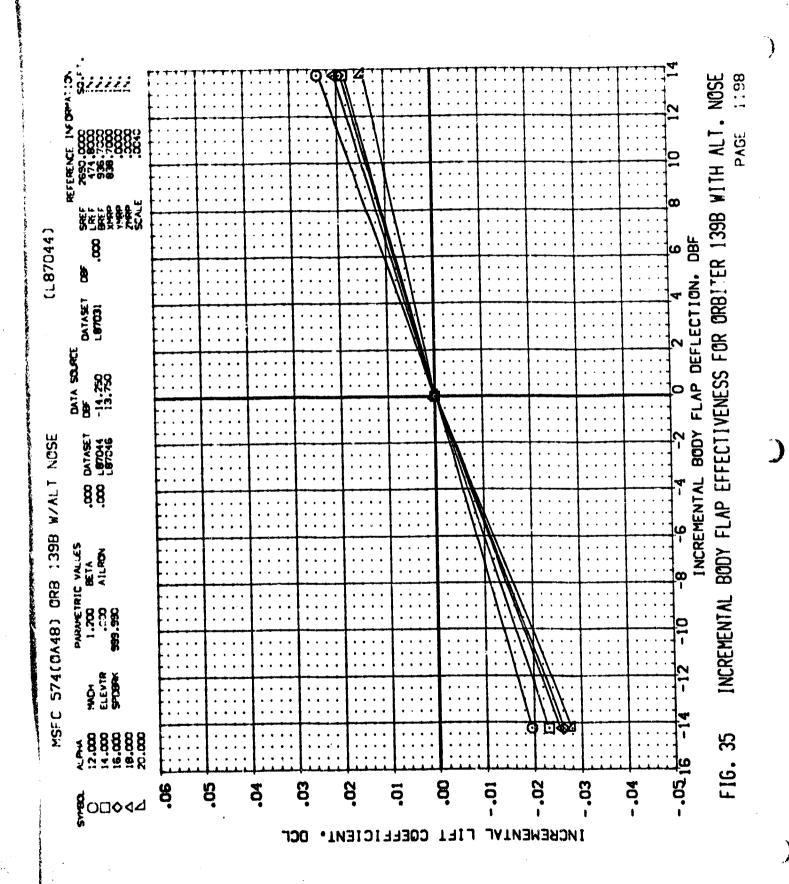


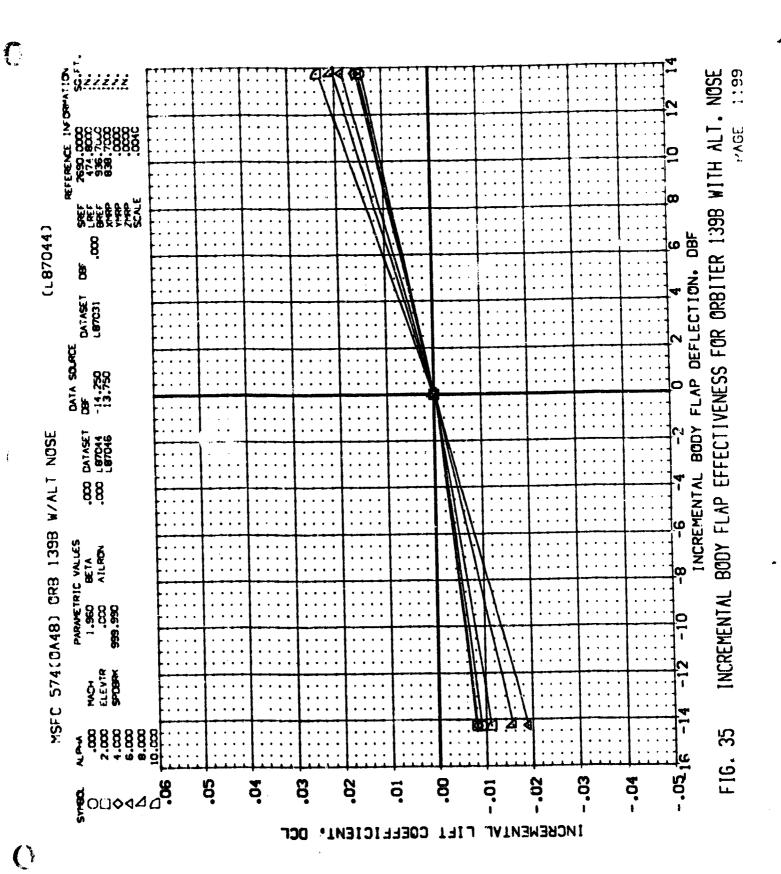


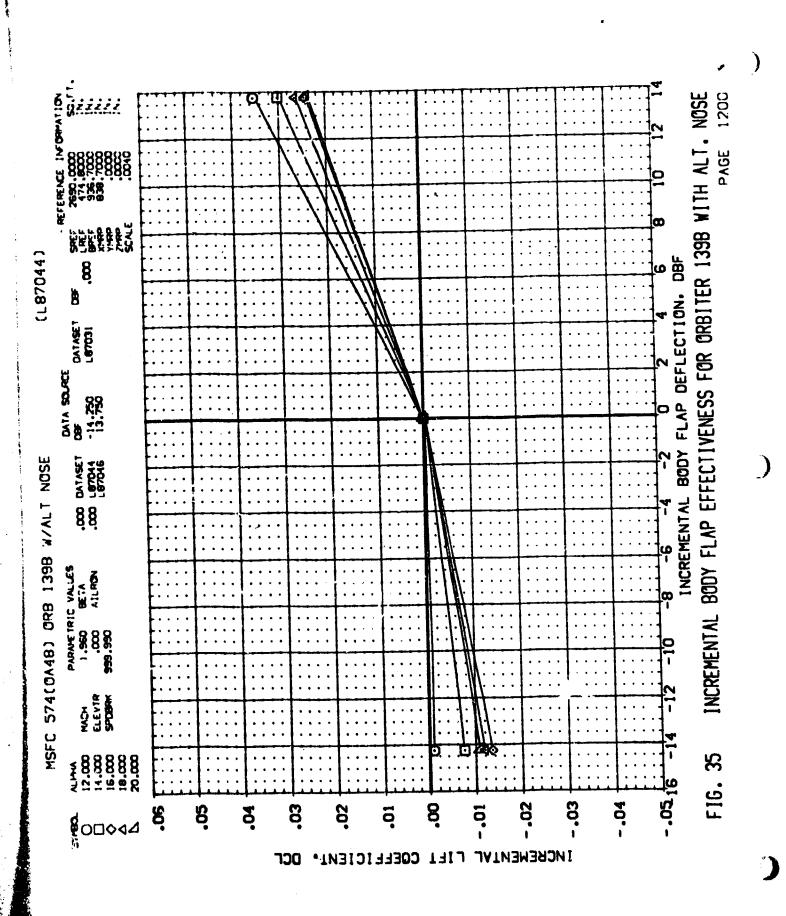


BODY FLAP EFFECTIVENESS FOR ORBITER 1398 WITH ALT. NOSE SAN WARE (L87044) INCREMENTAL BODY FLAP DEFLECTION. DBF 8 B DATASET LB7031 ONTA SOURCE OBF -14.250 .000 DATASET .000 LB7044 LB7046 MSFC 574(0A48) ORB :398 W/ALT NOSE

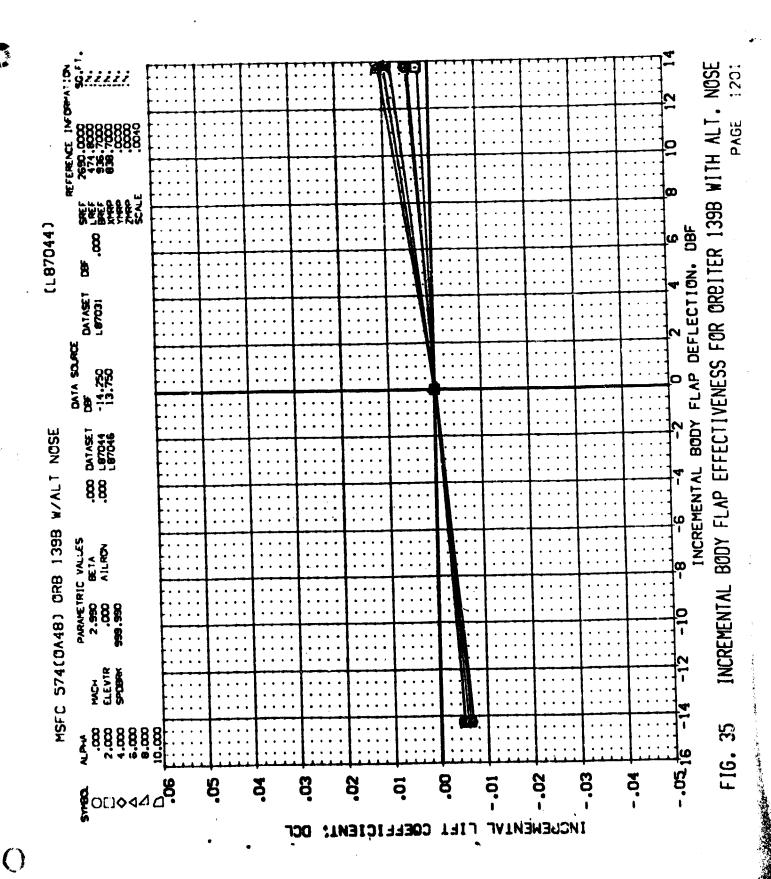
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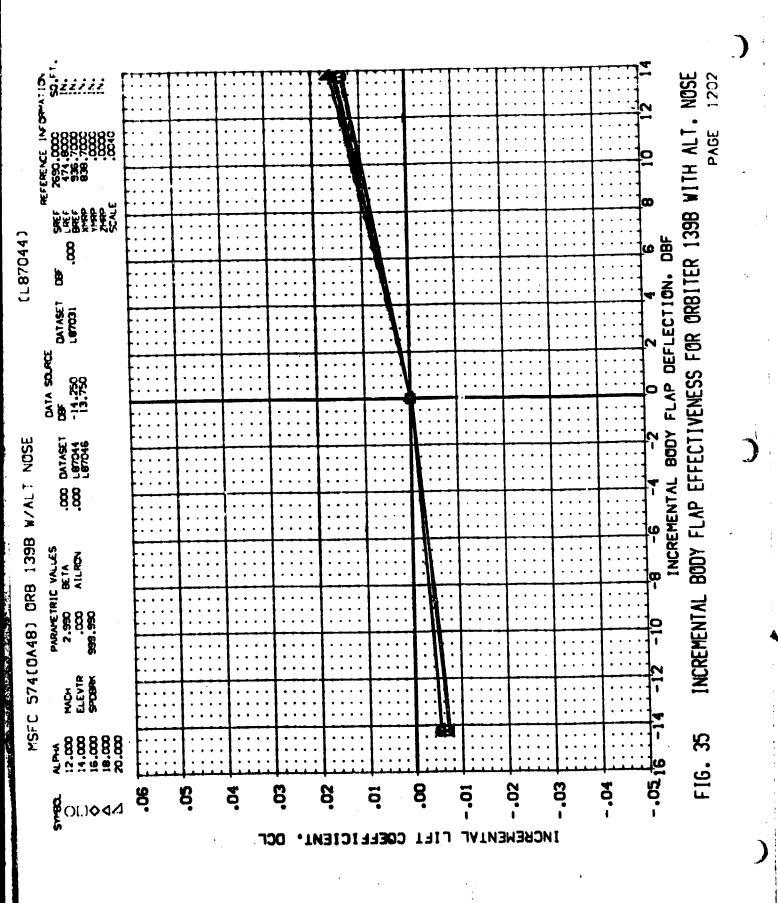


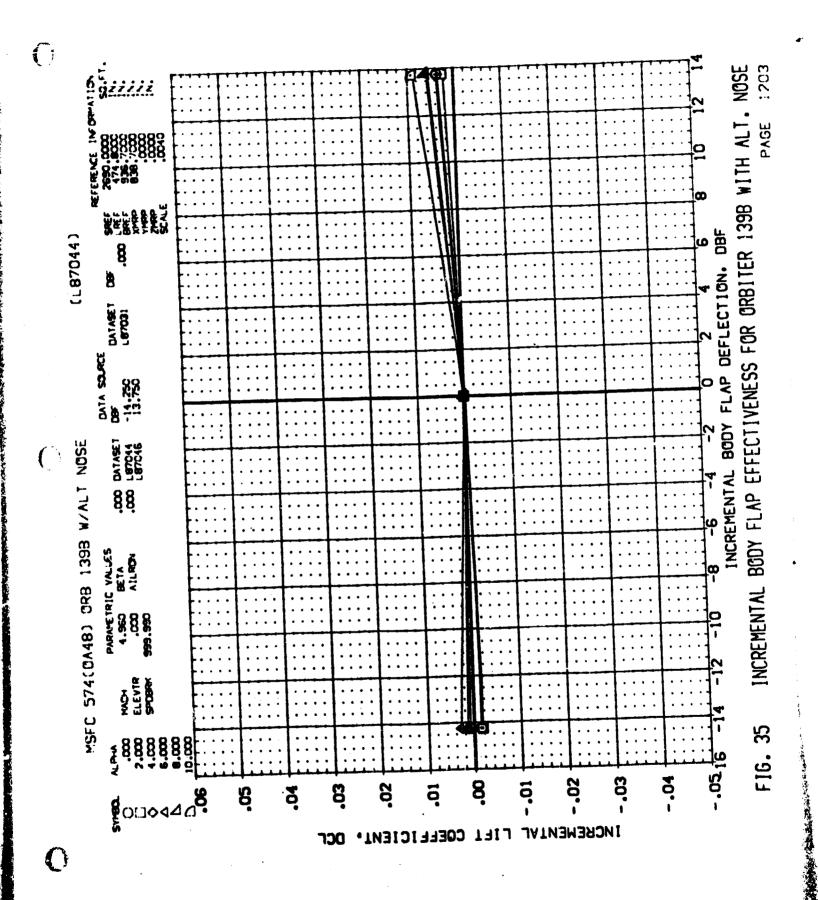


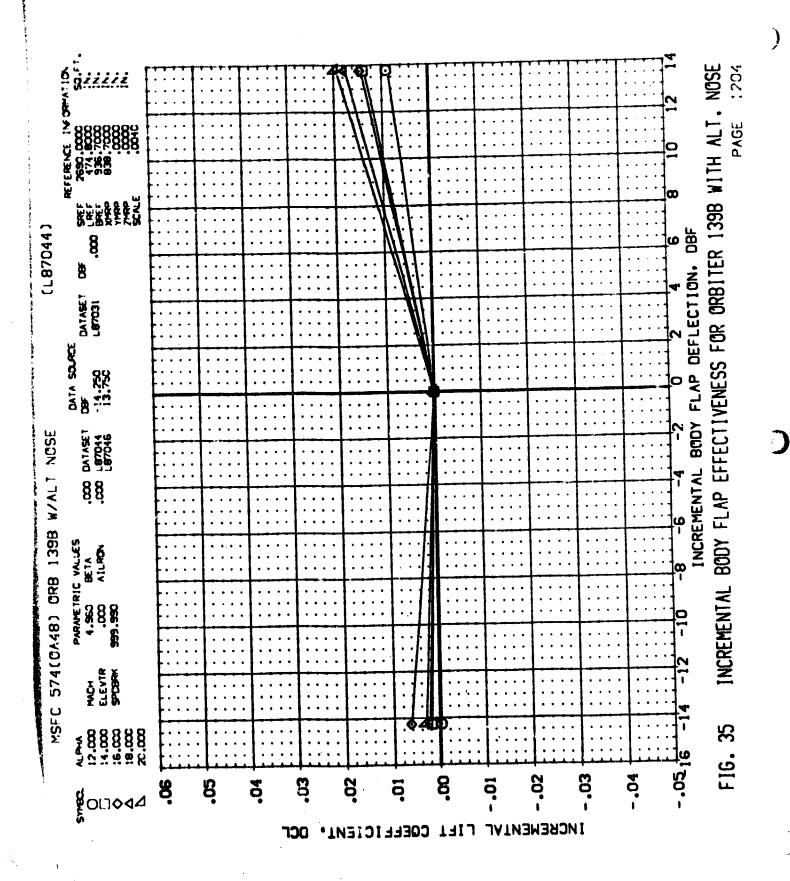


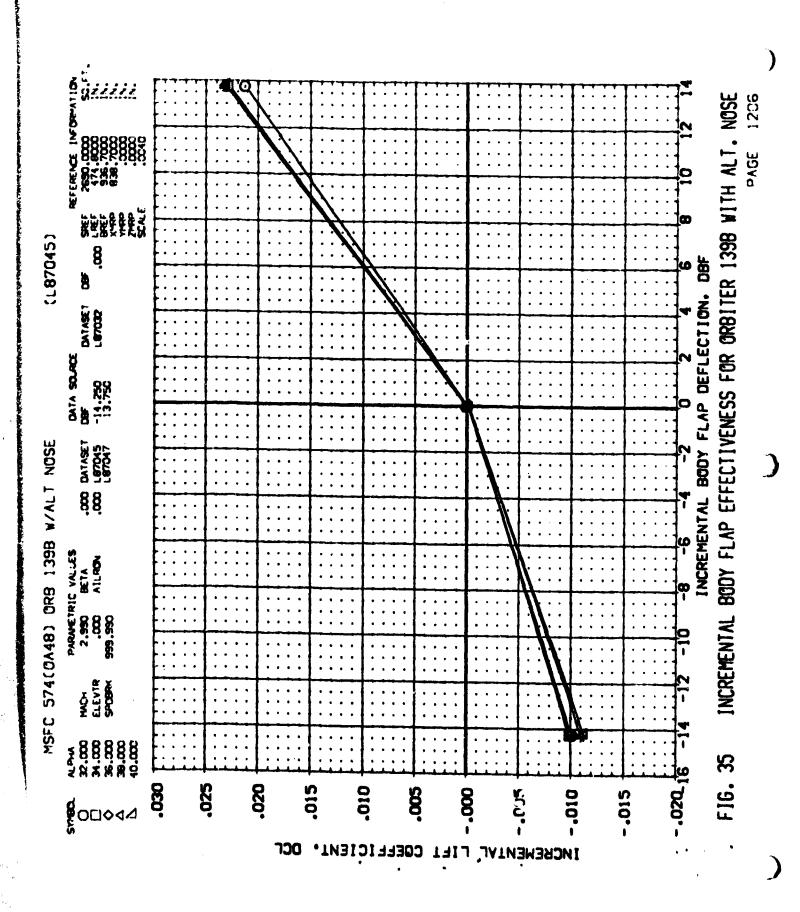
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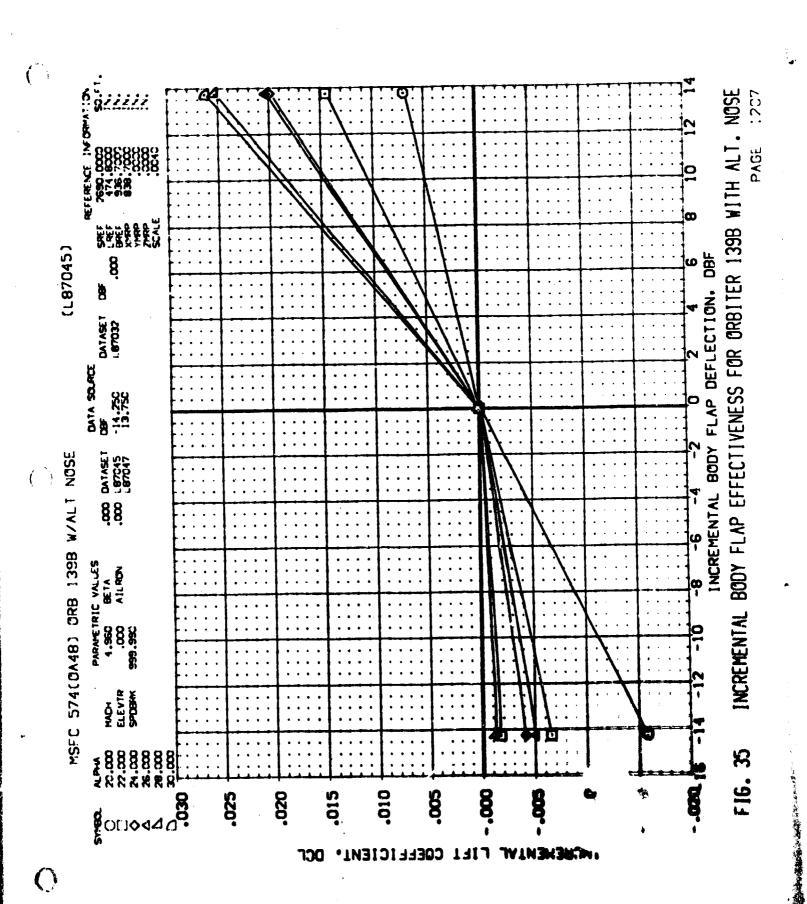


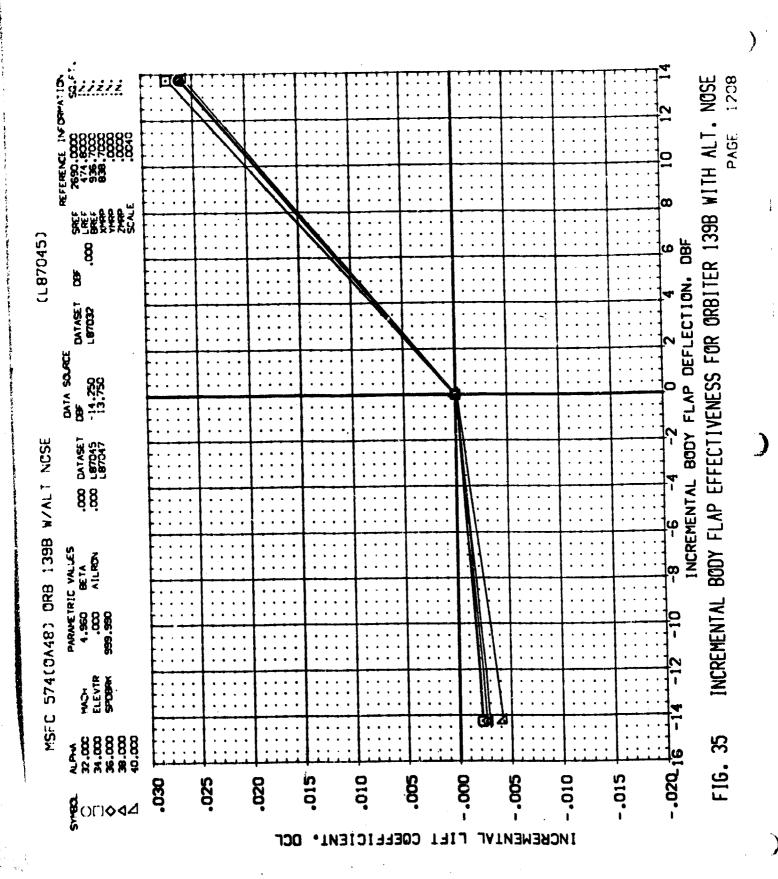












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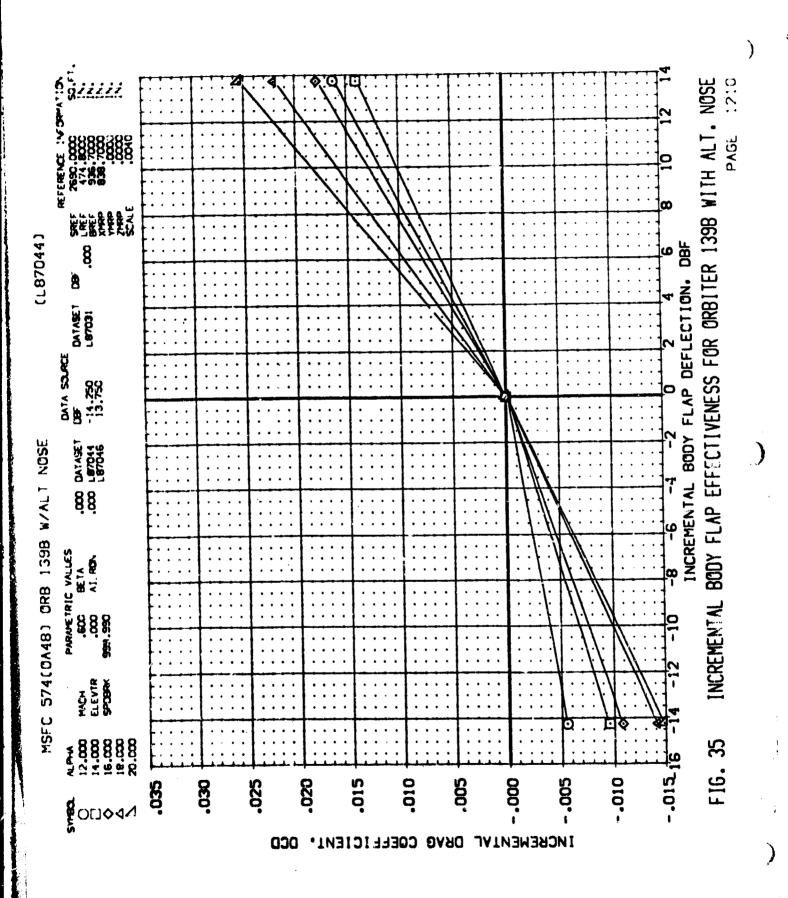
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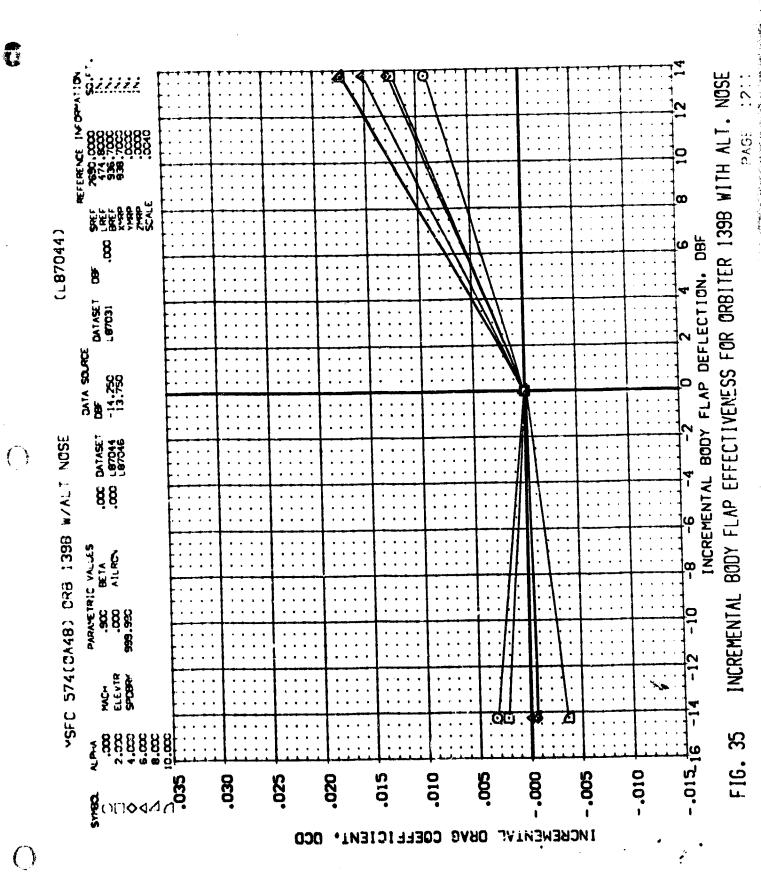
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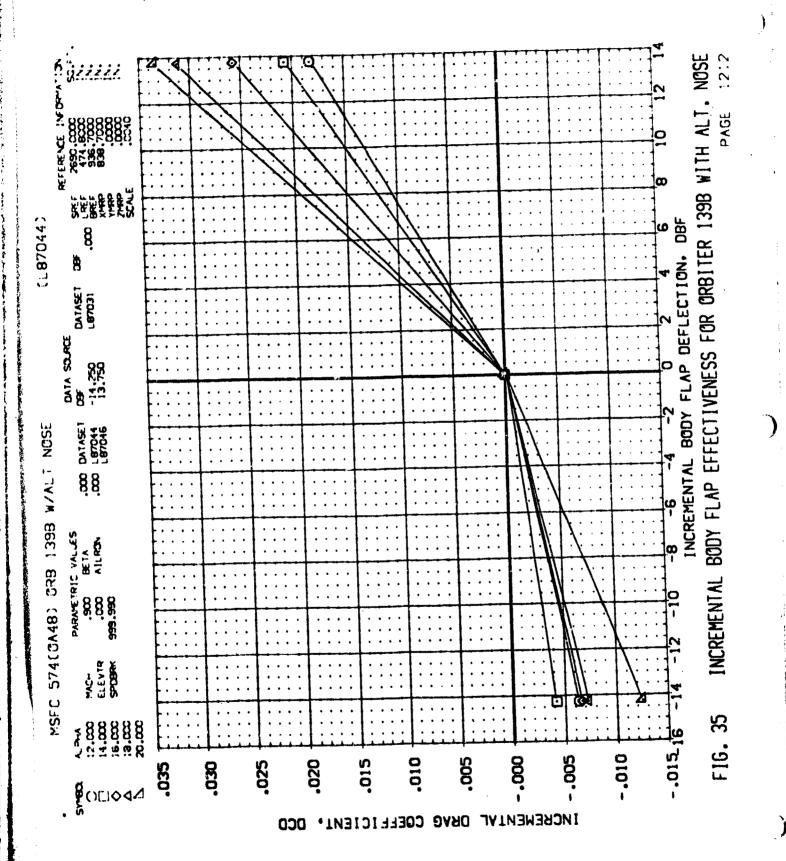
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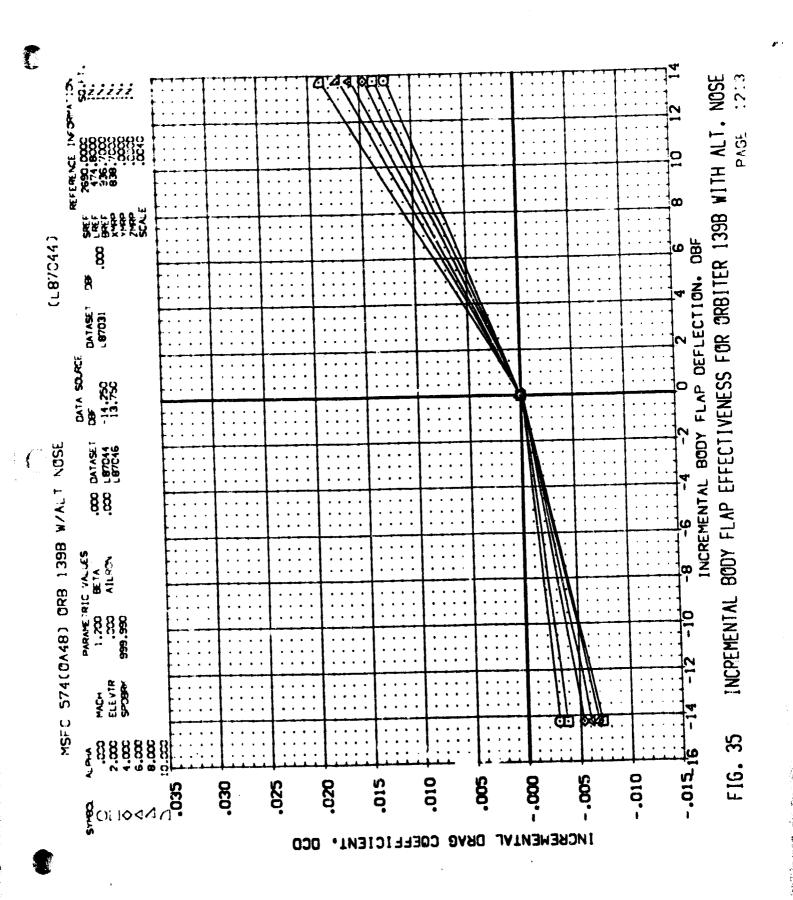
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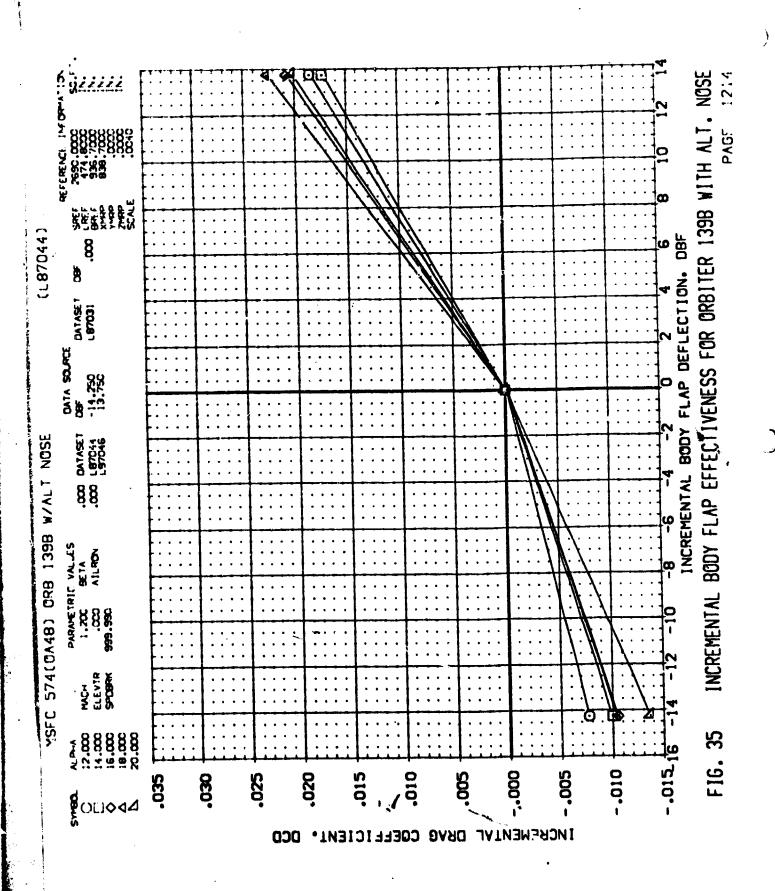
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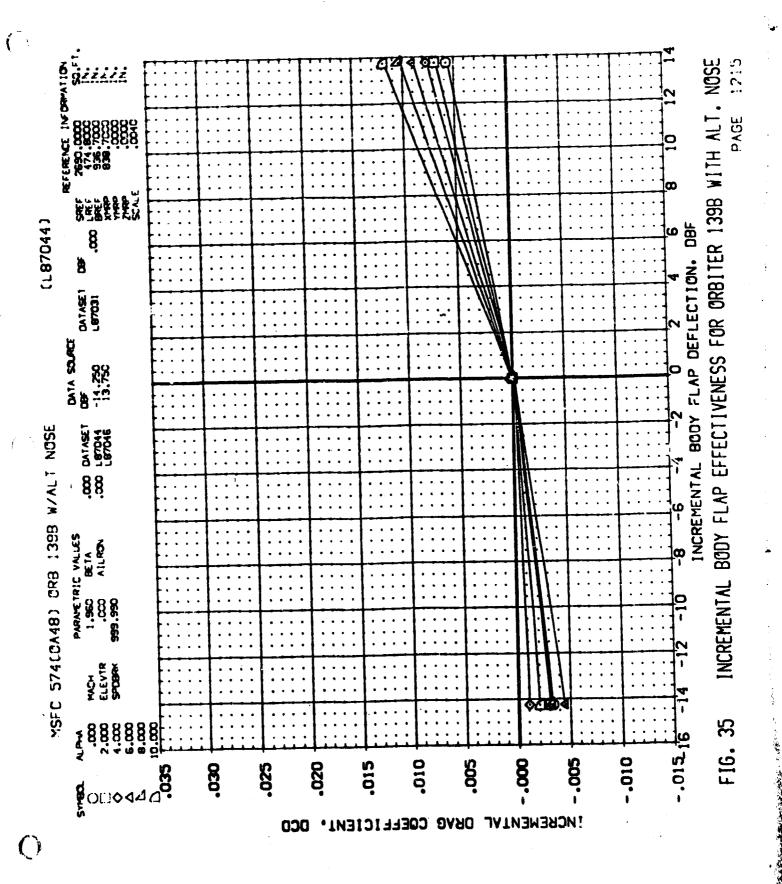


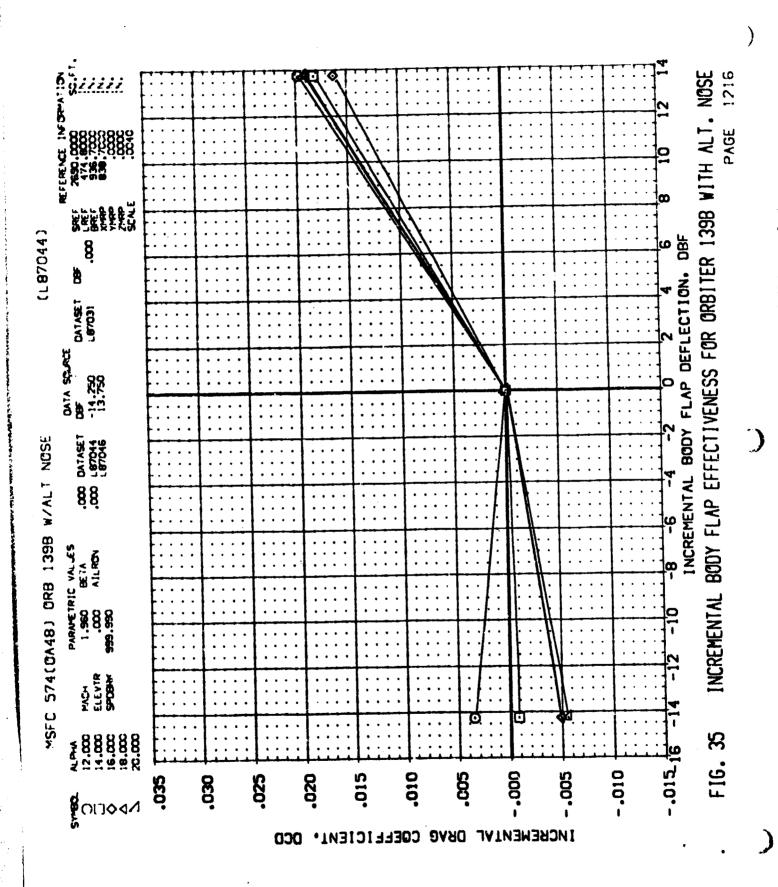


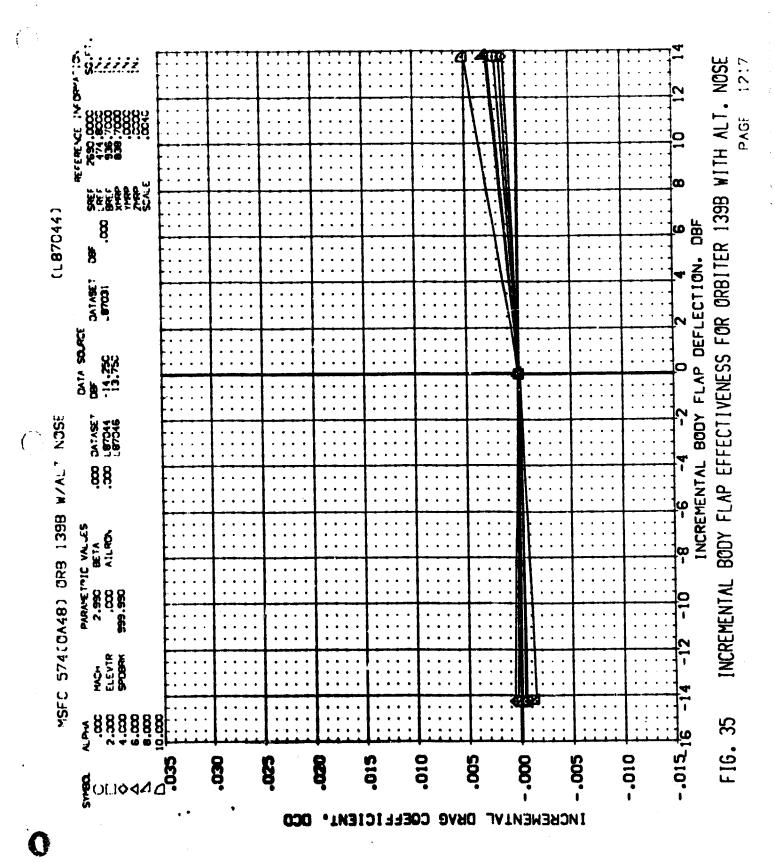


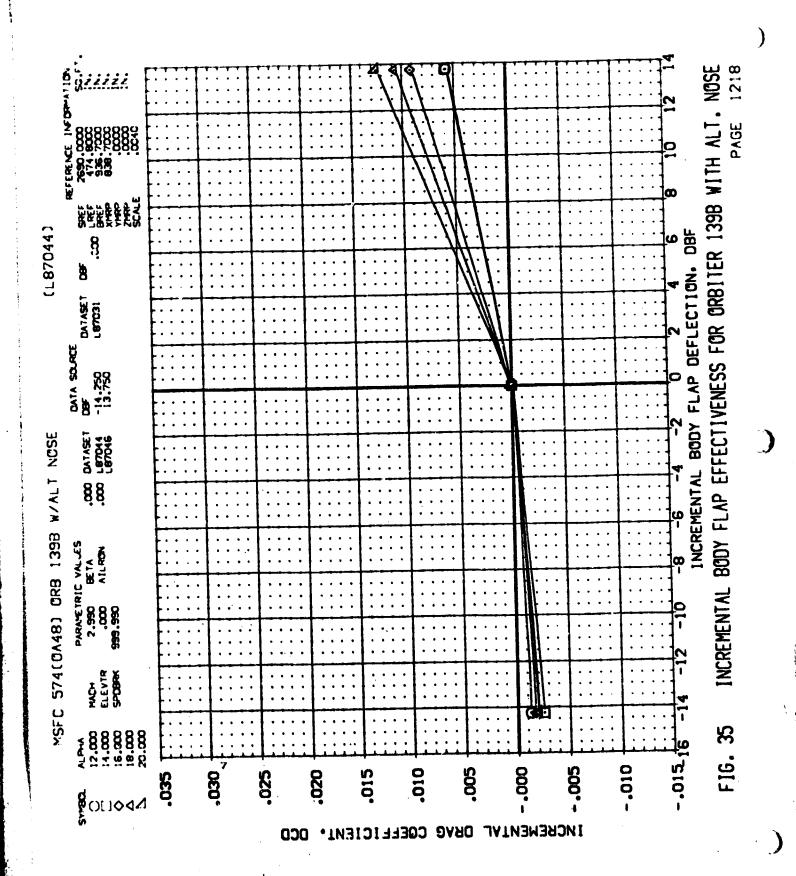




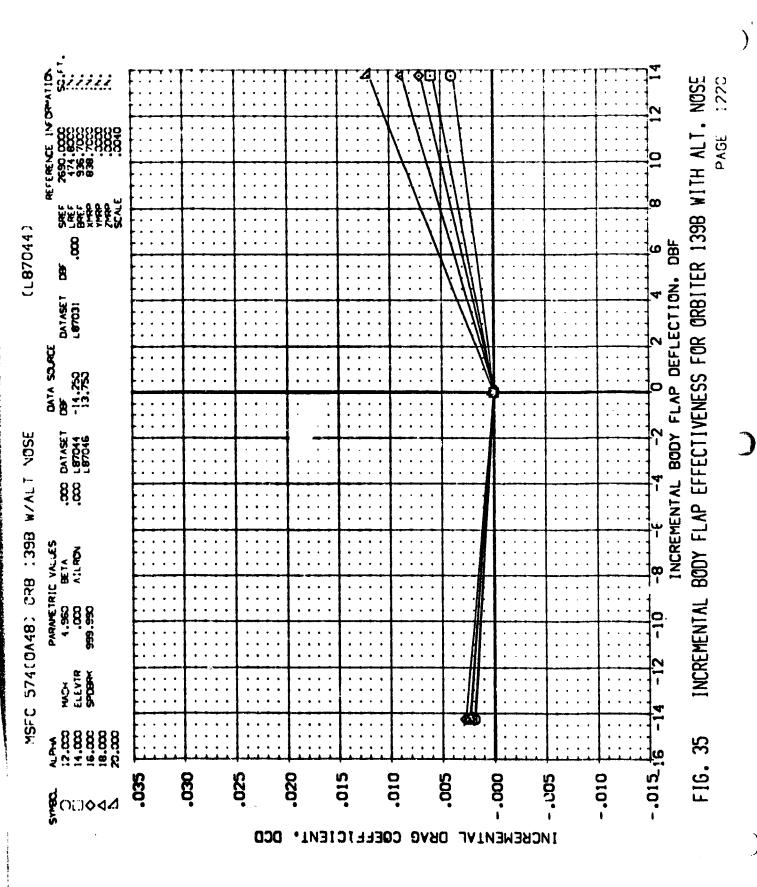


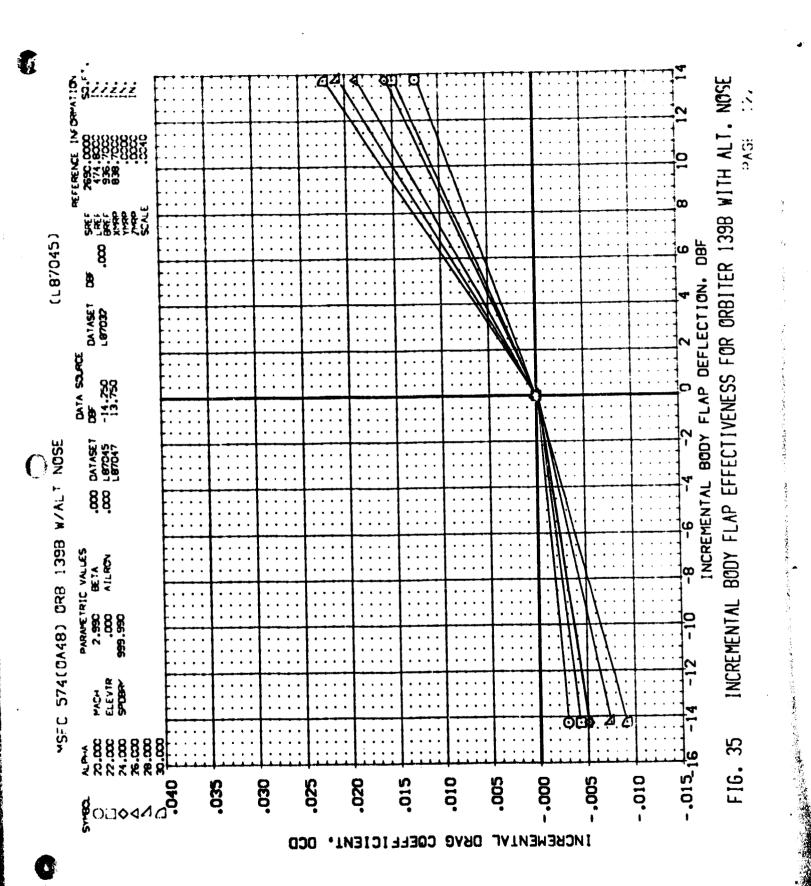


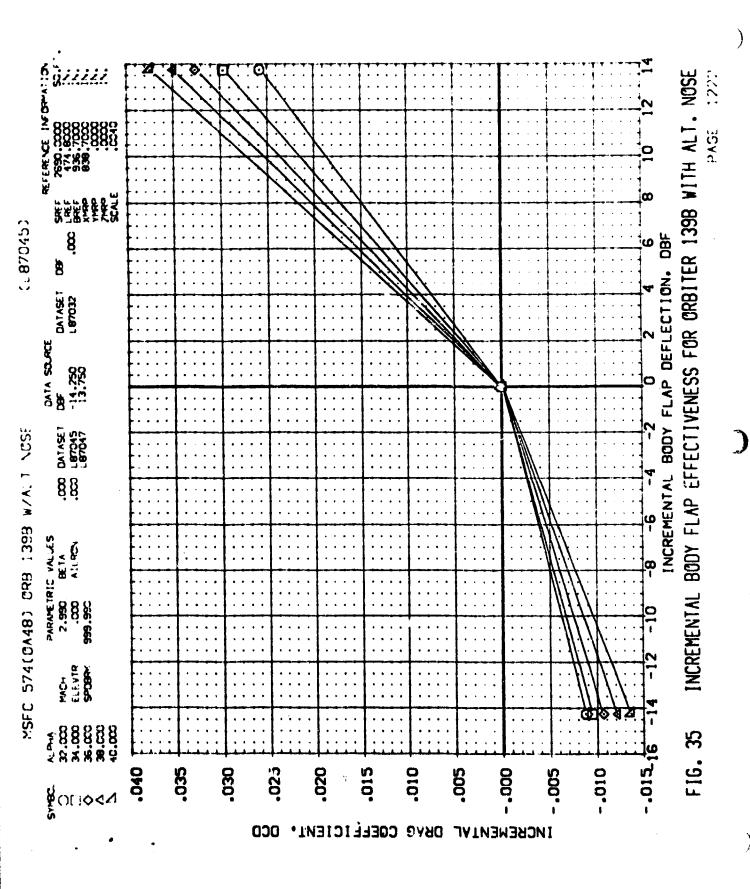


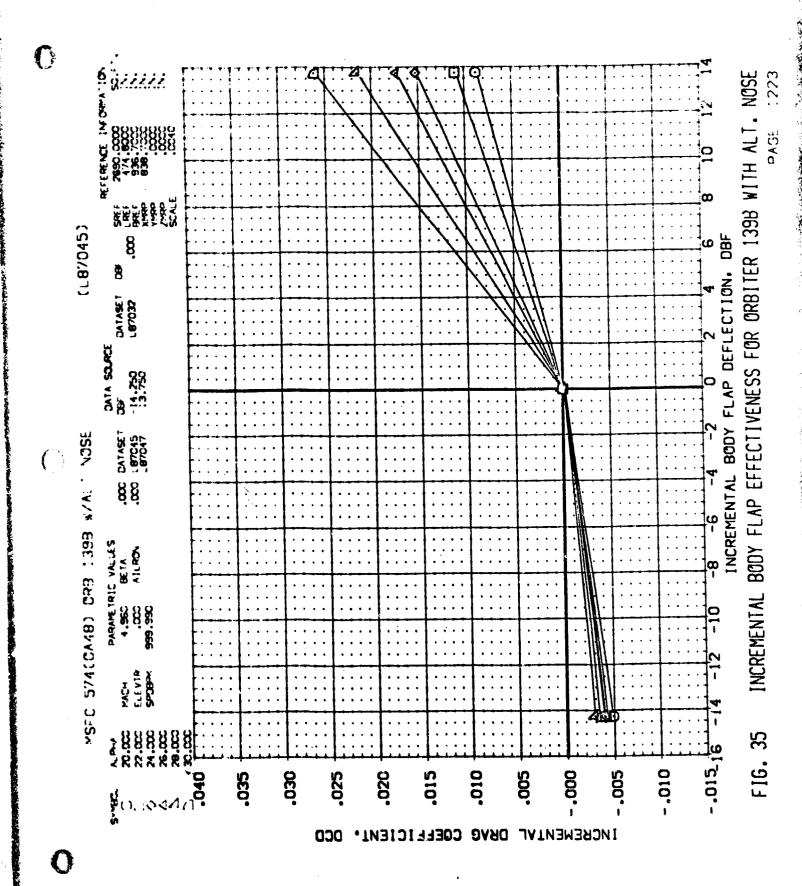


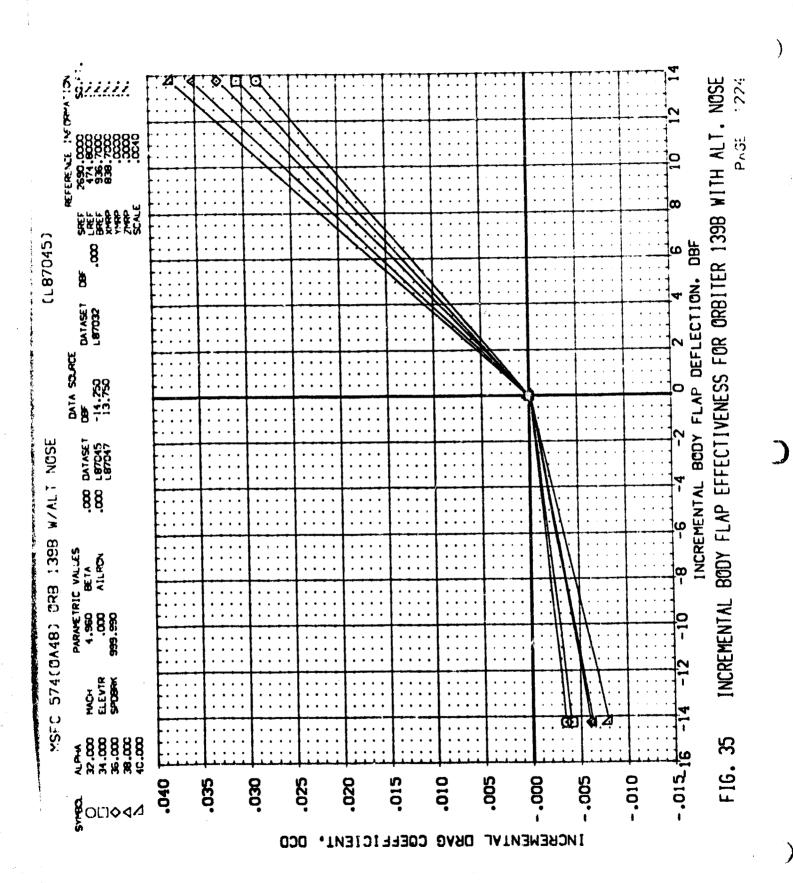
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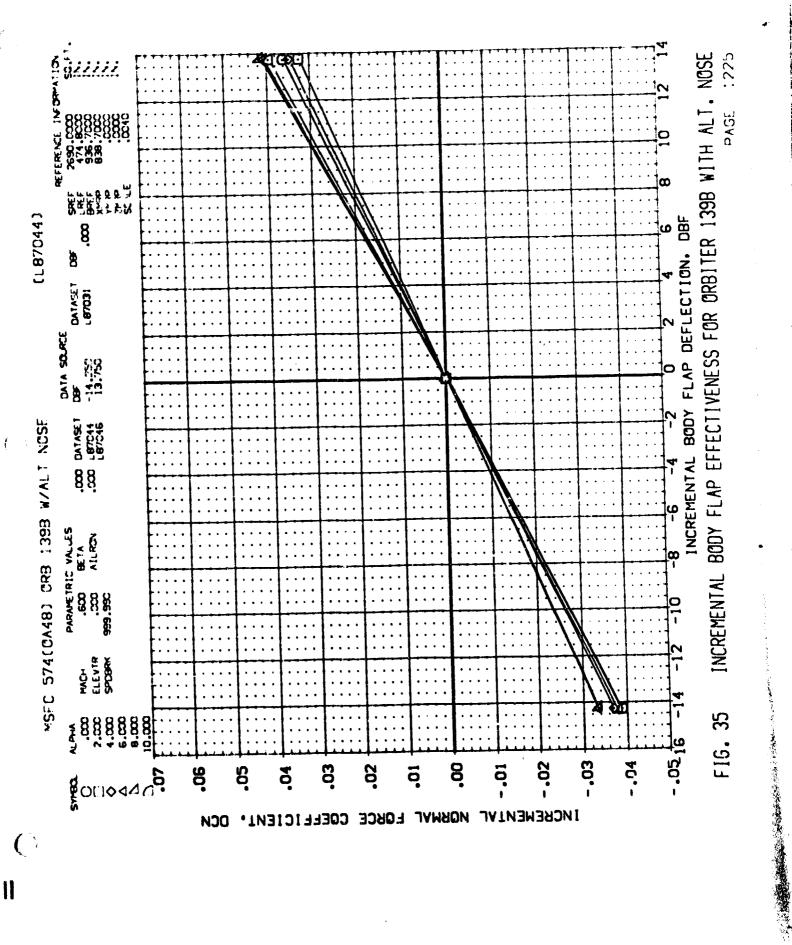


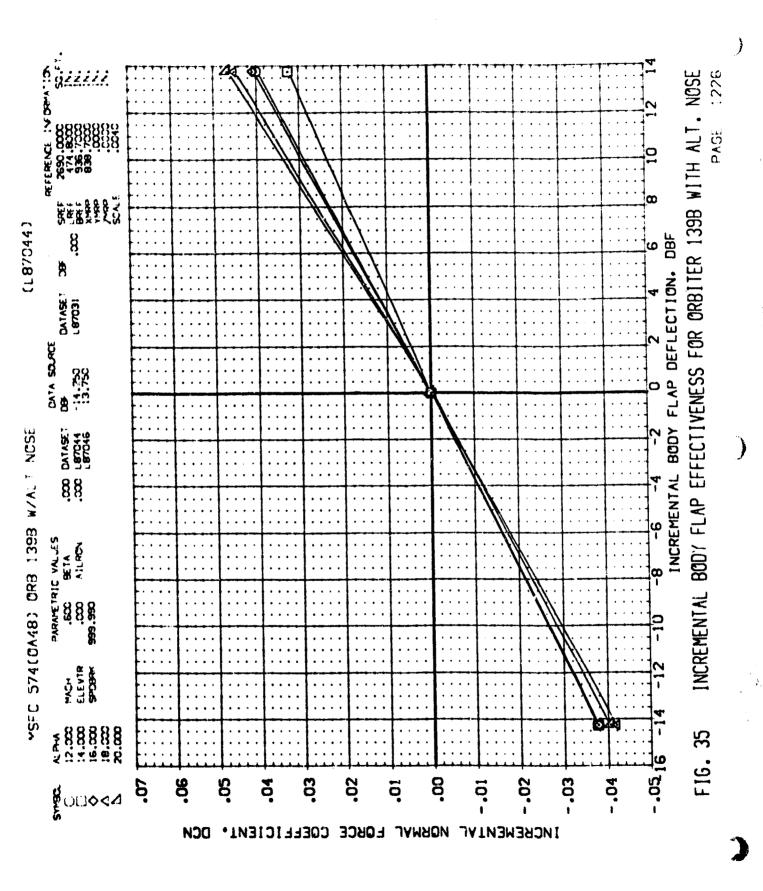


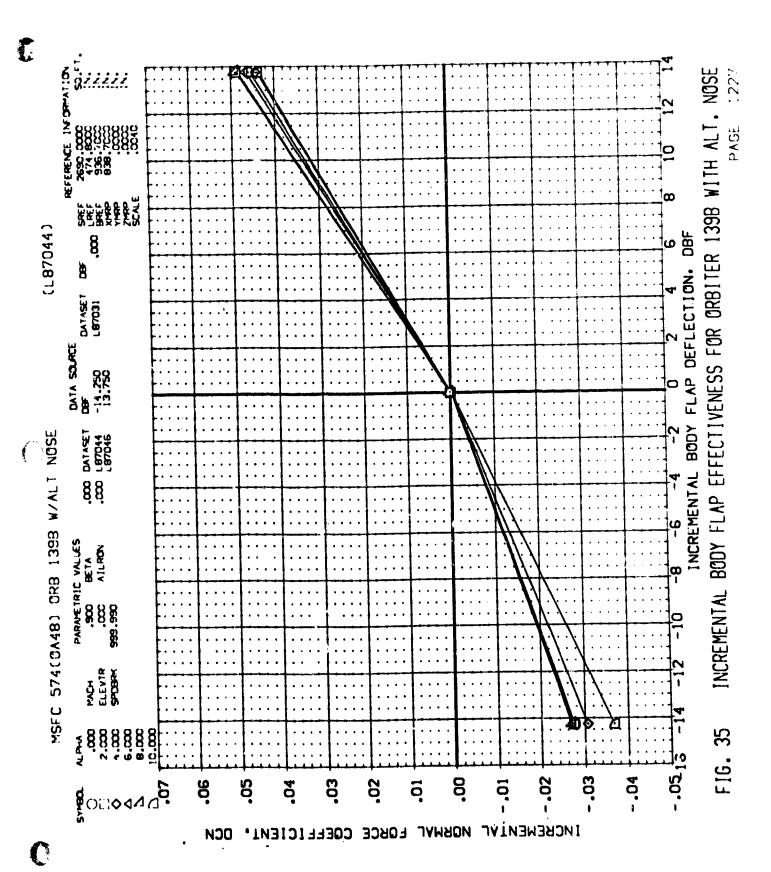






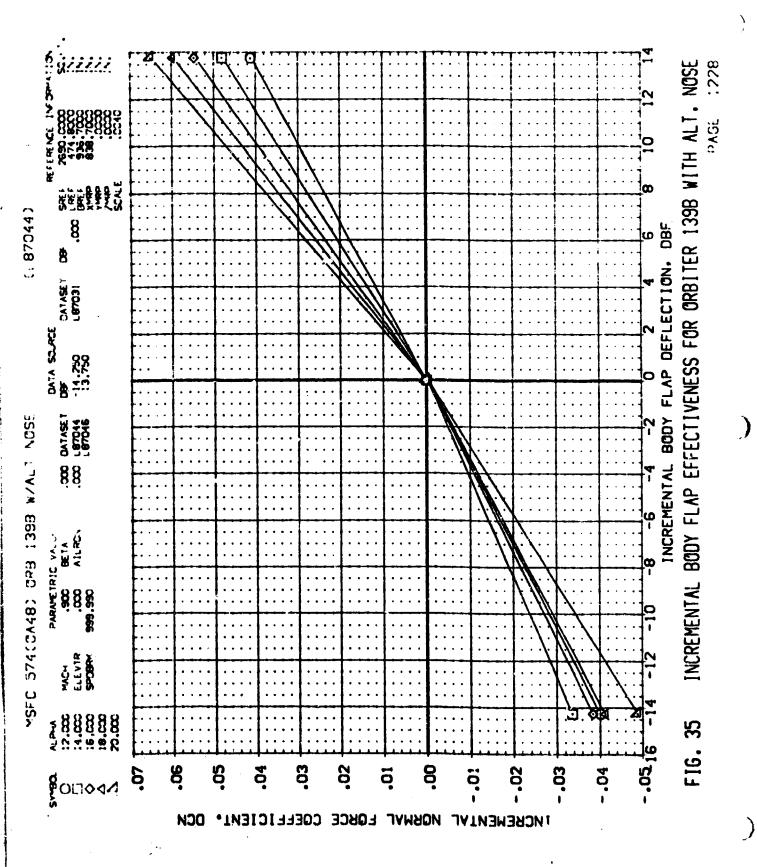


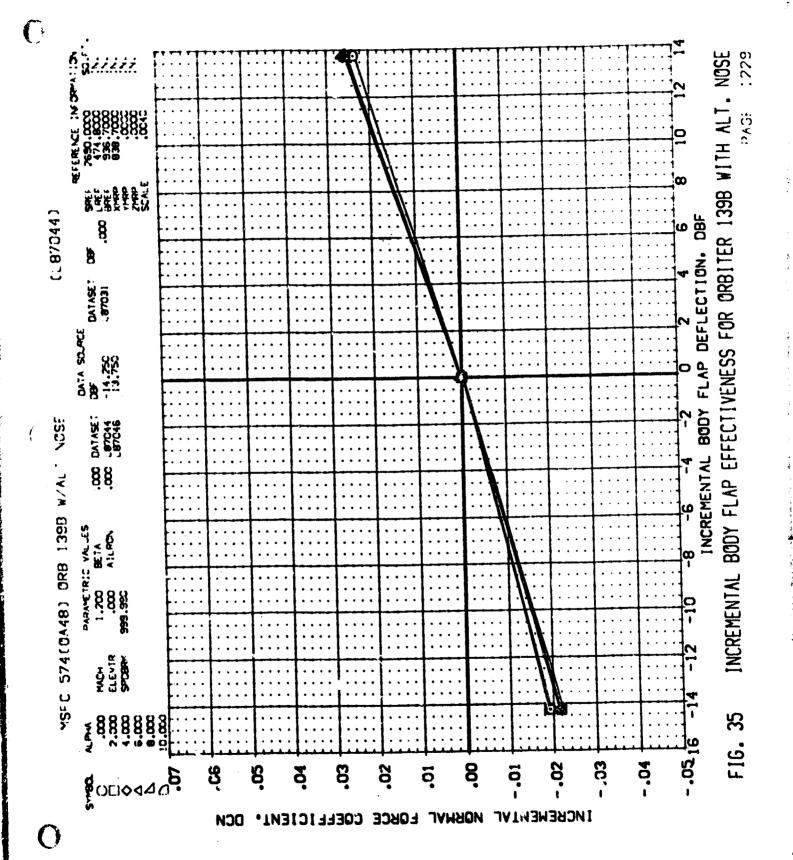


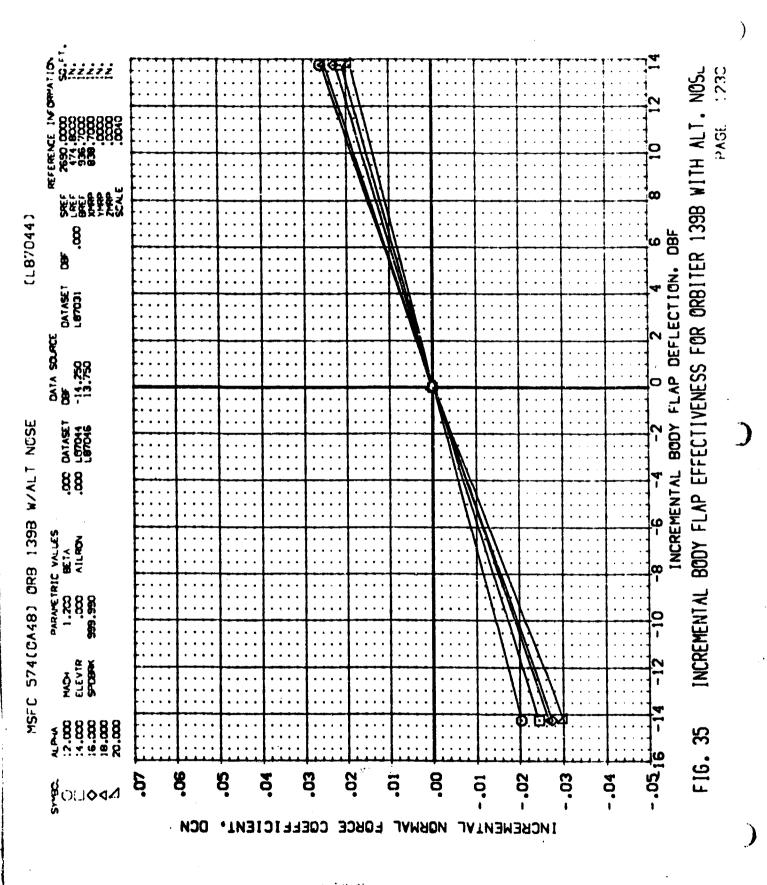


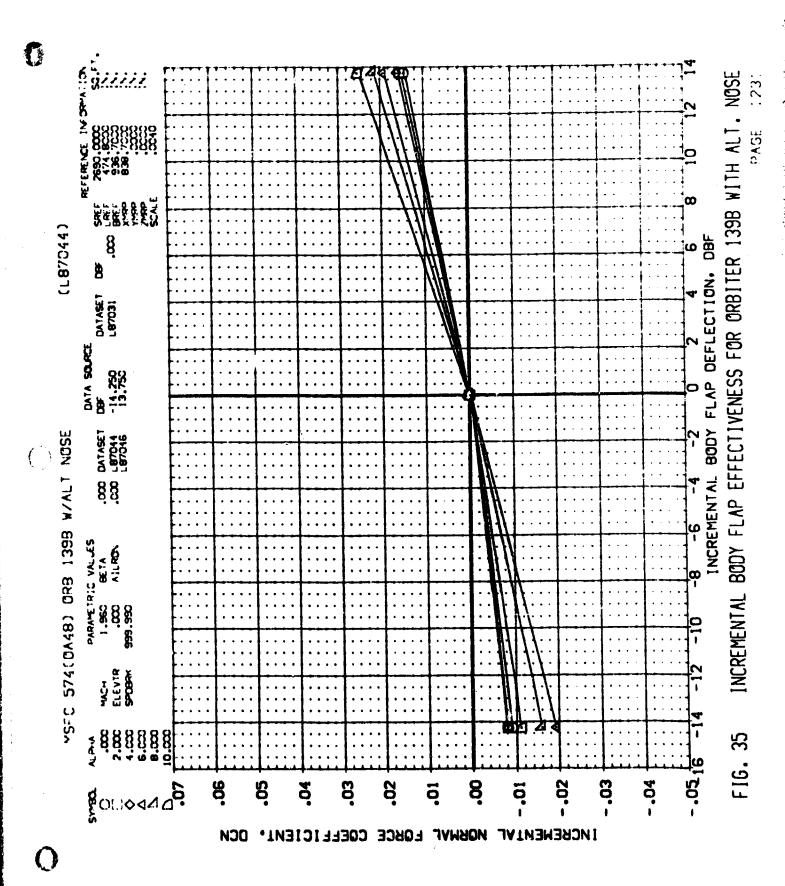
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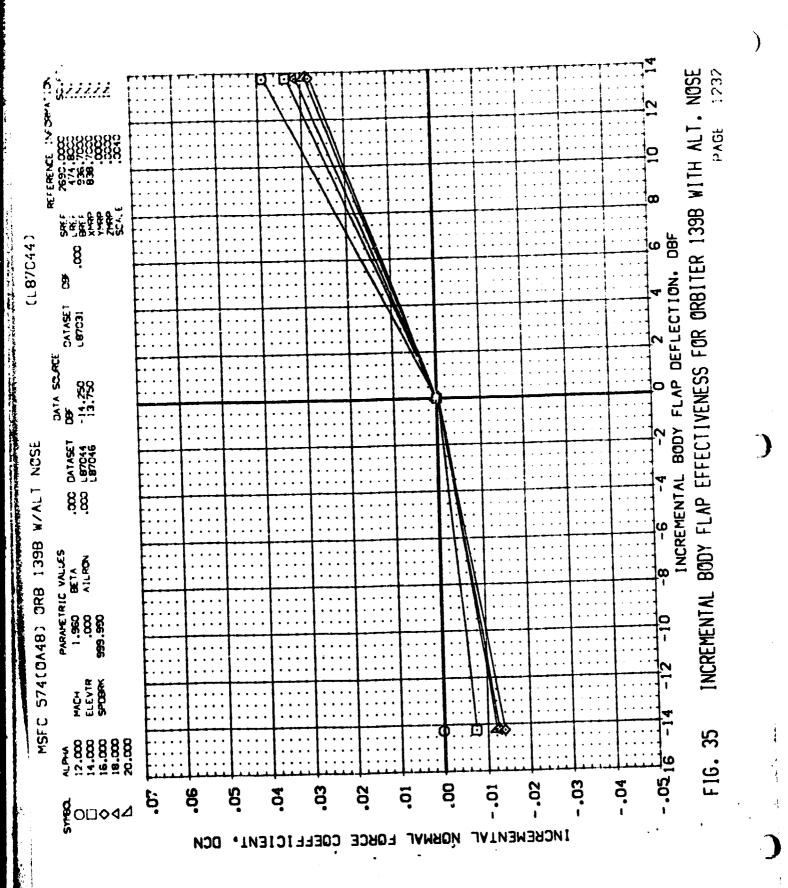


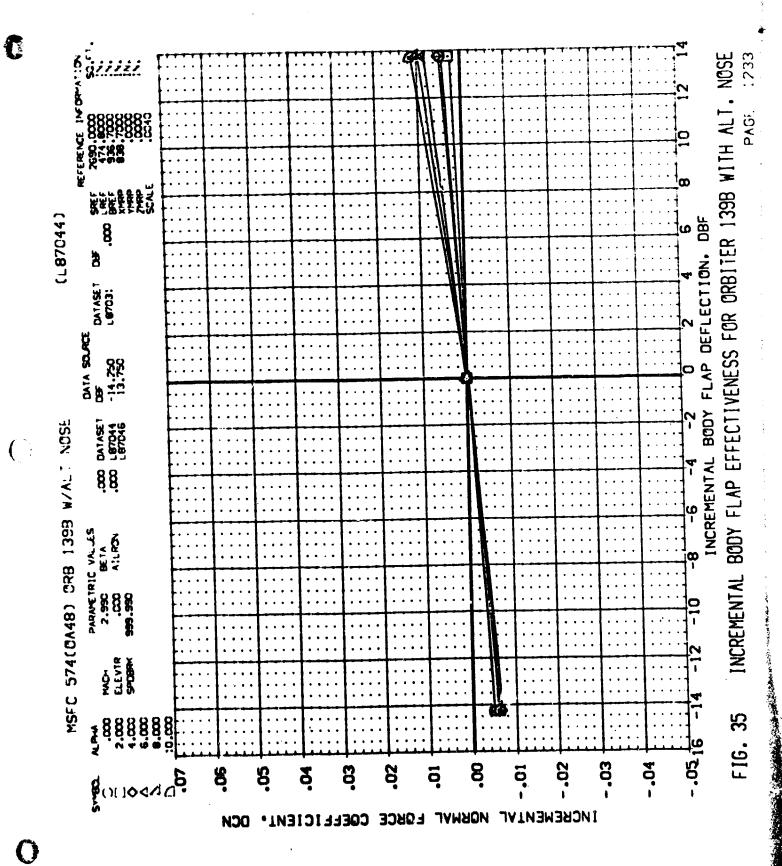


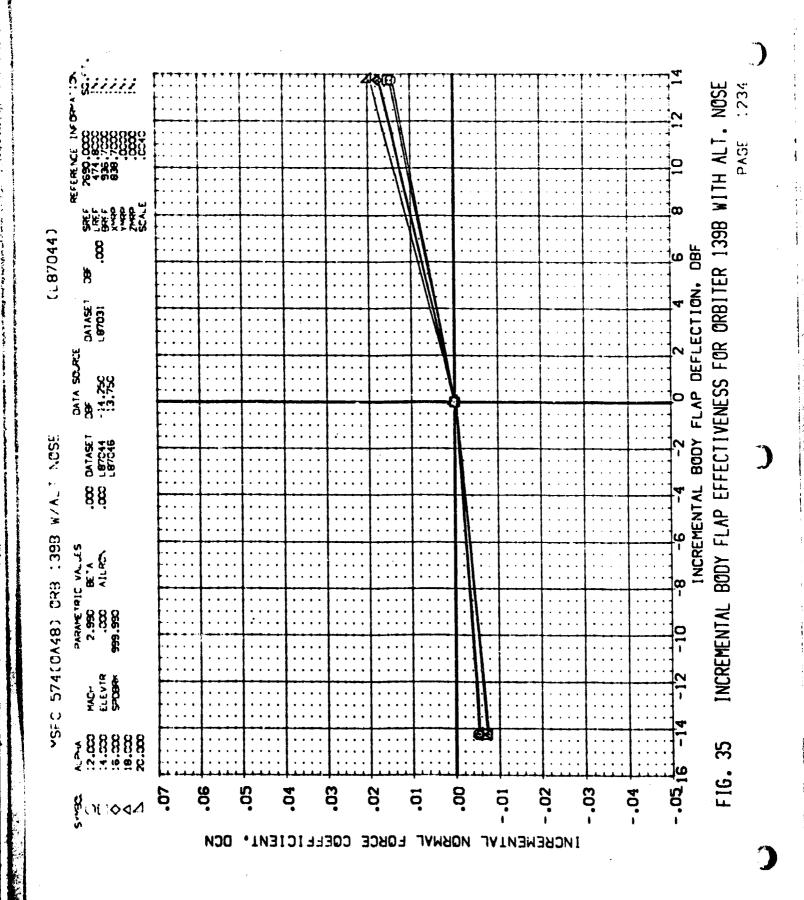


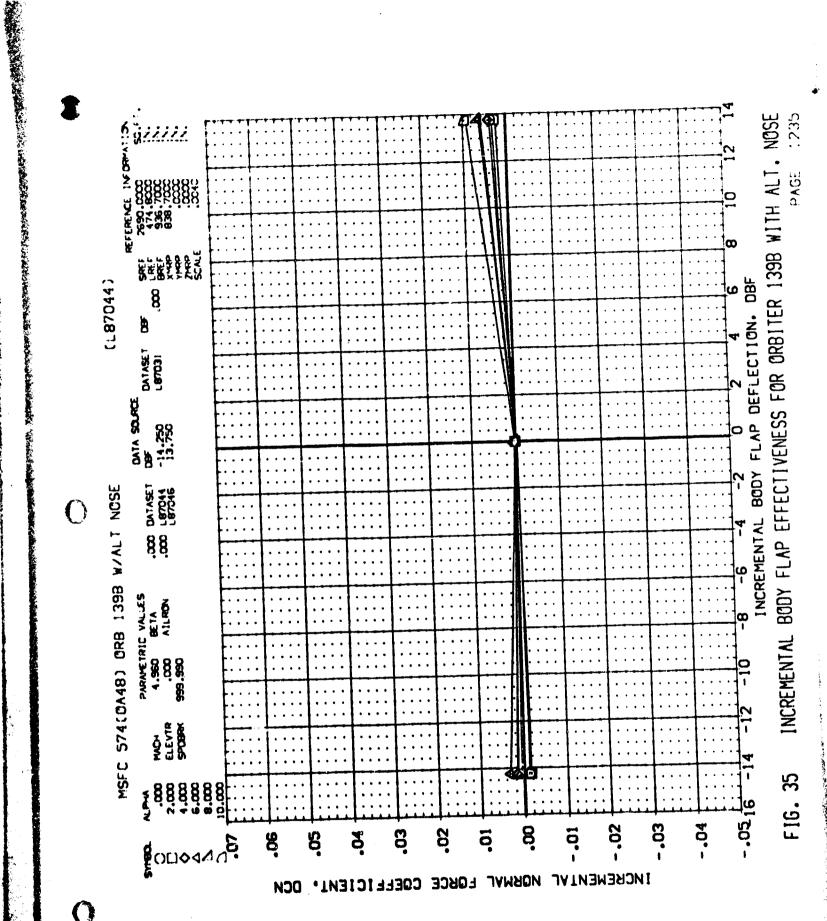


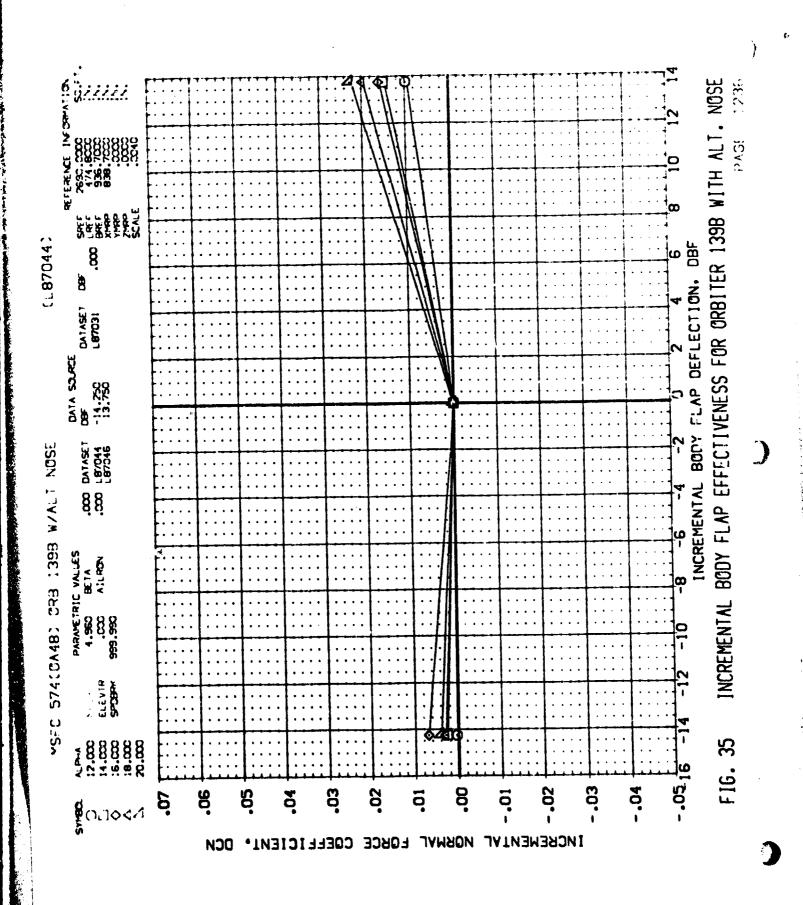
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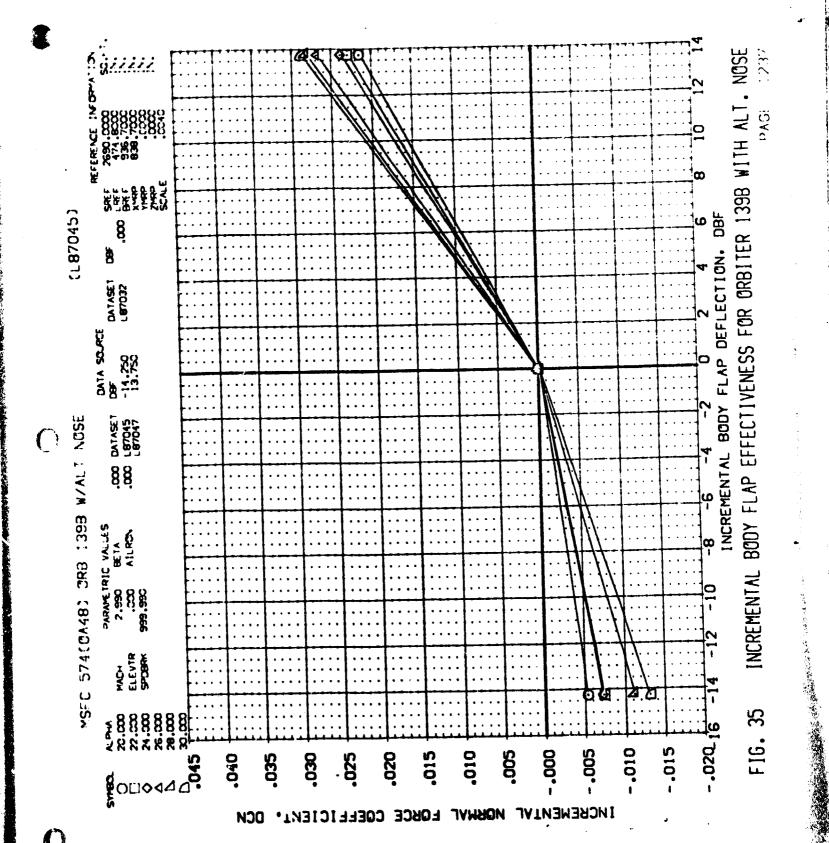


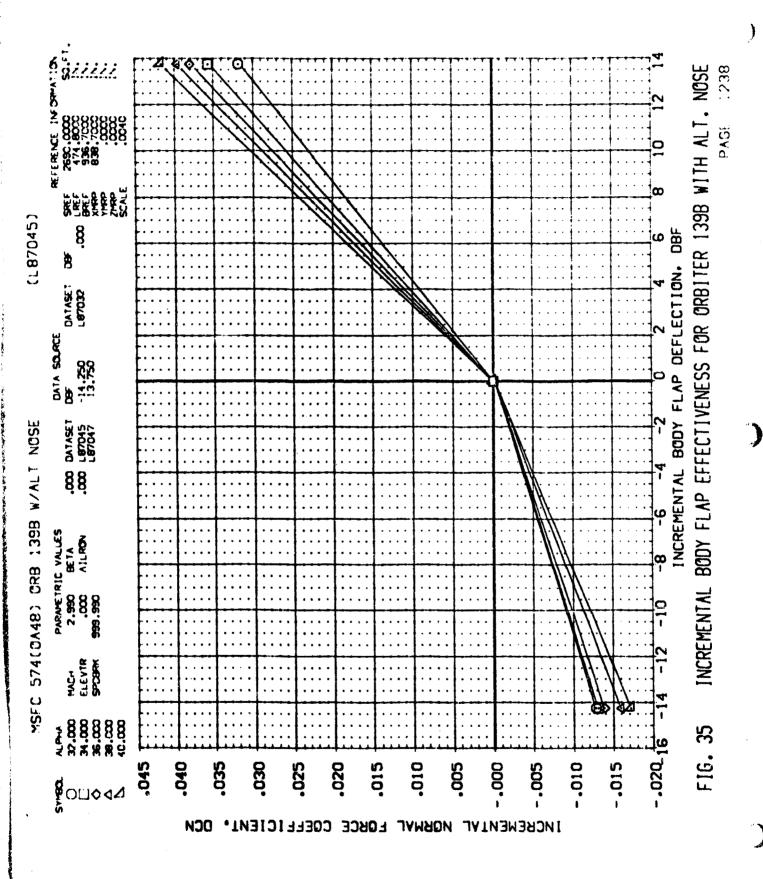








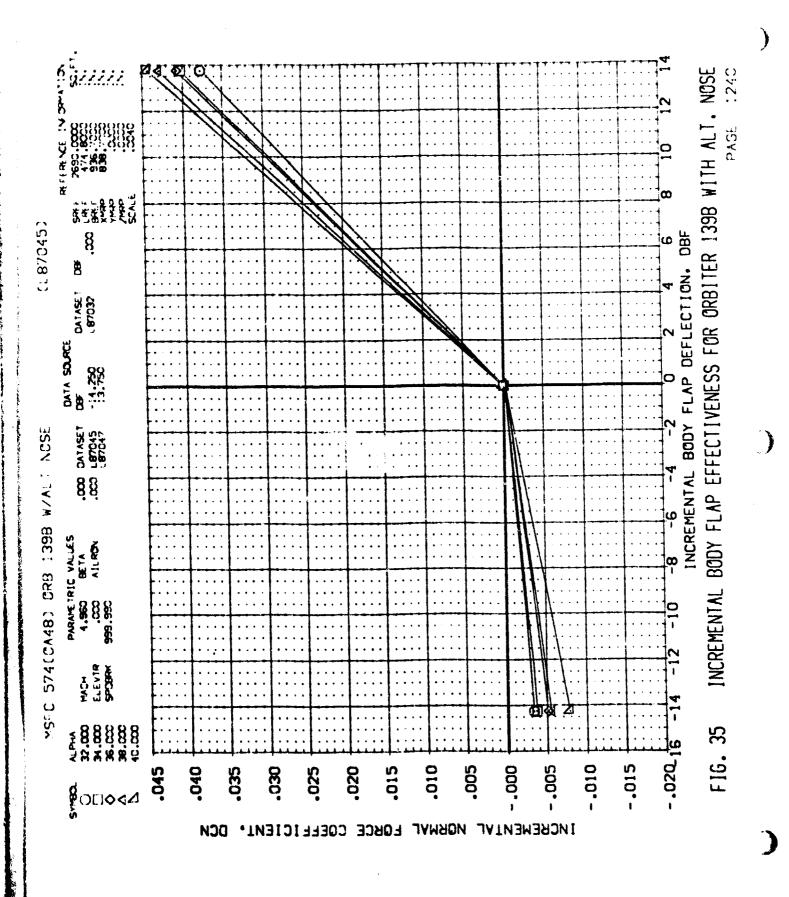


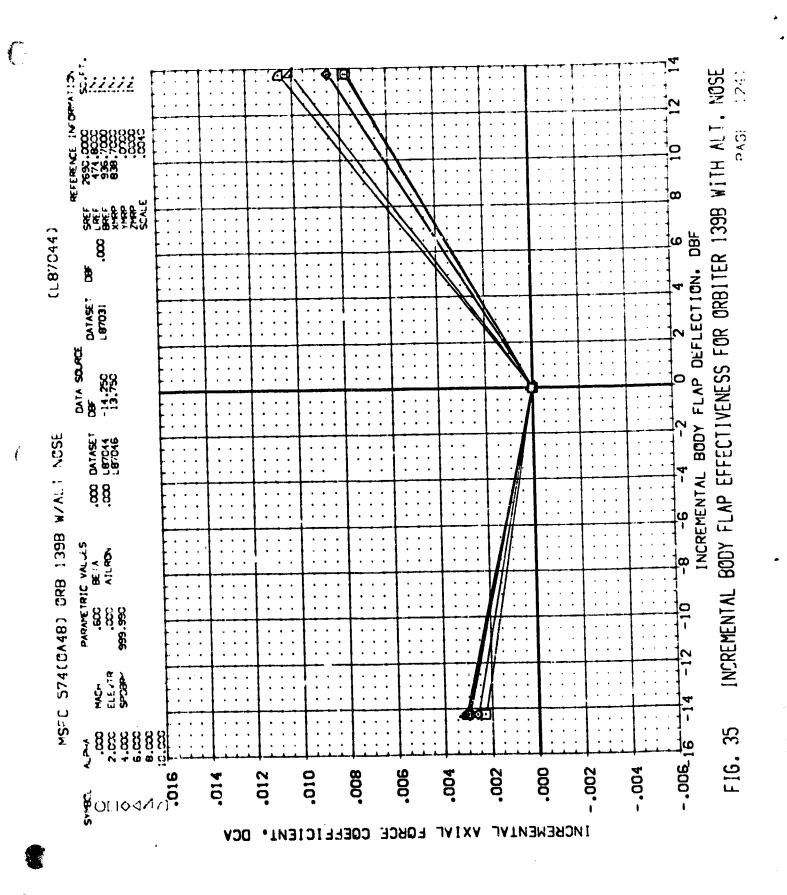


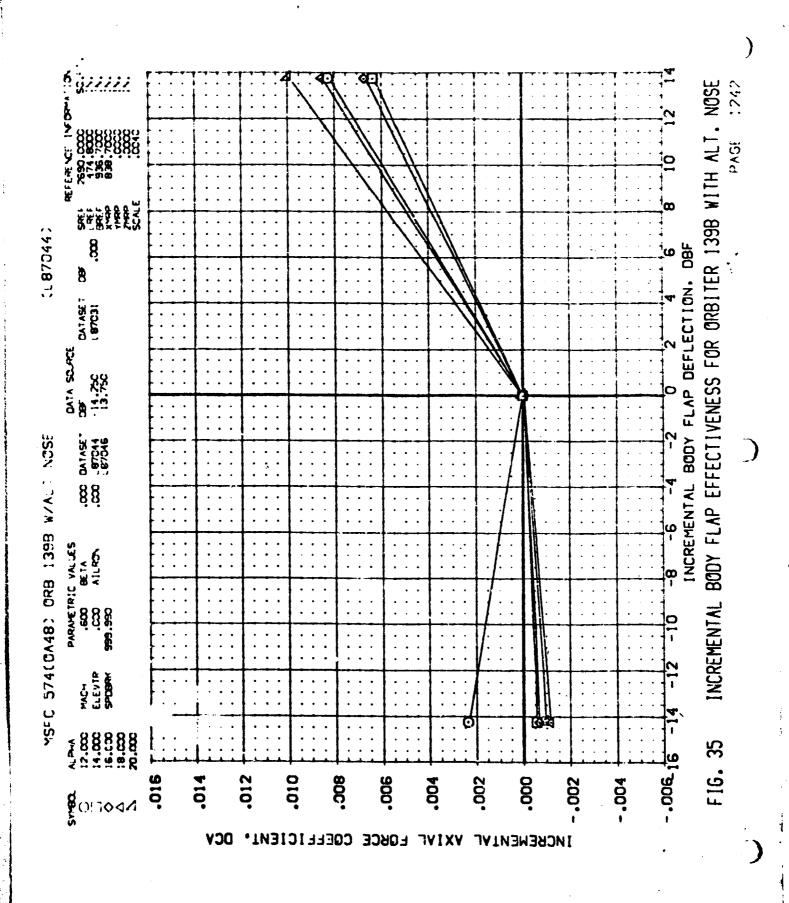
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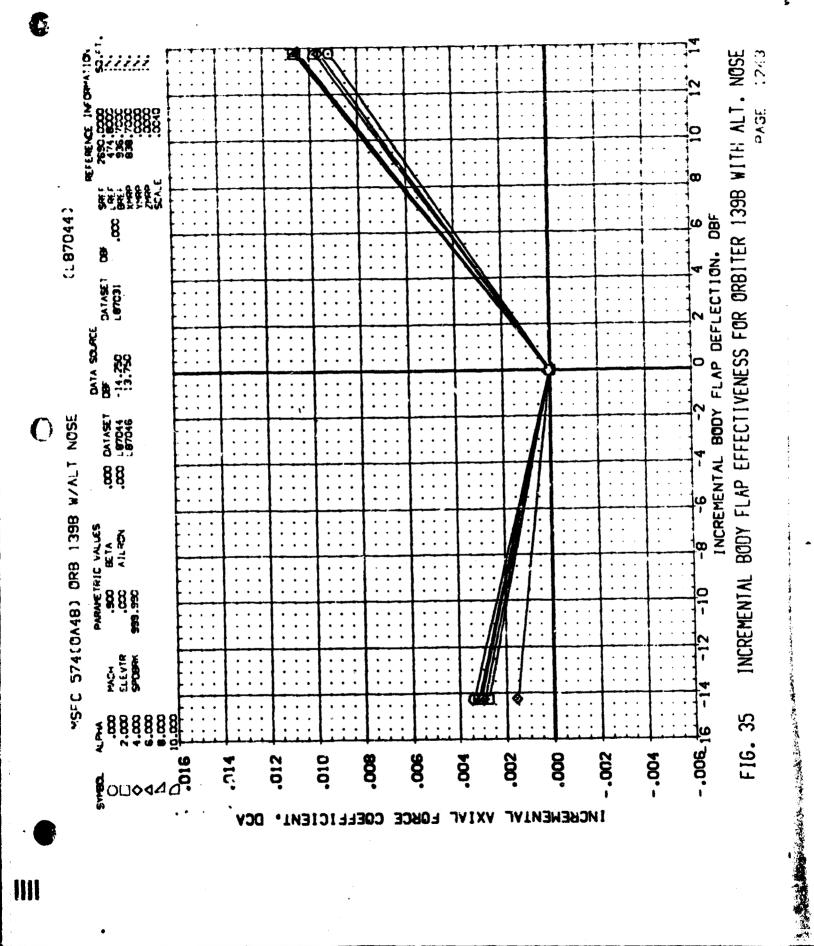
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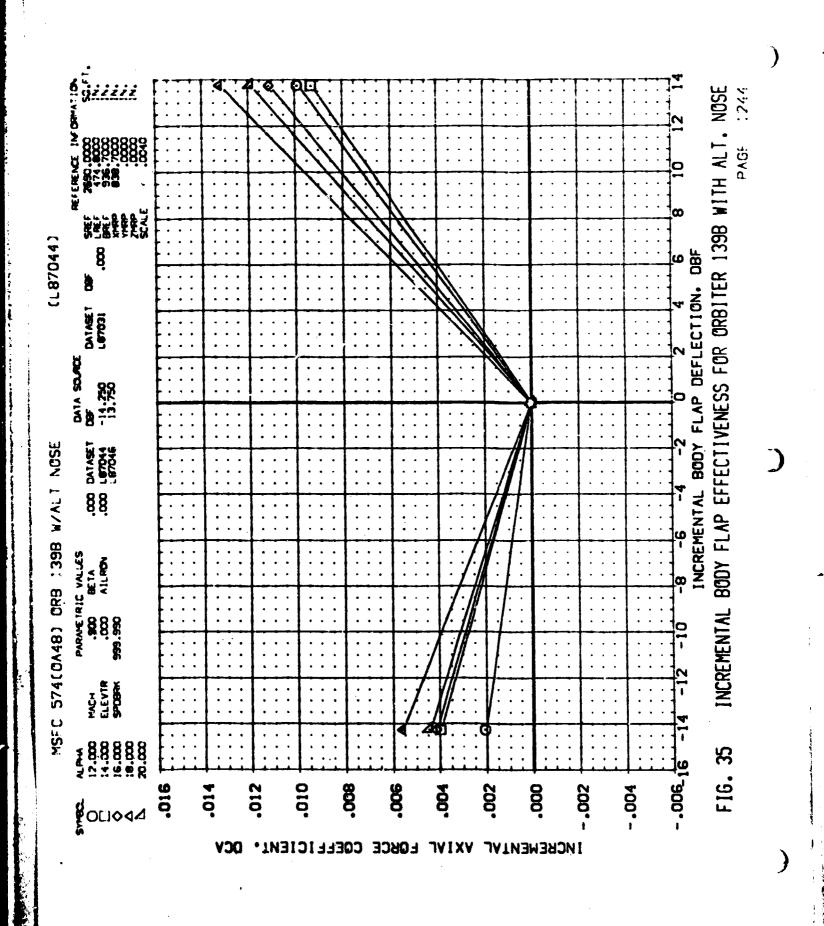
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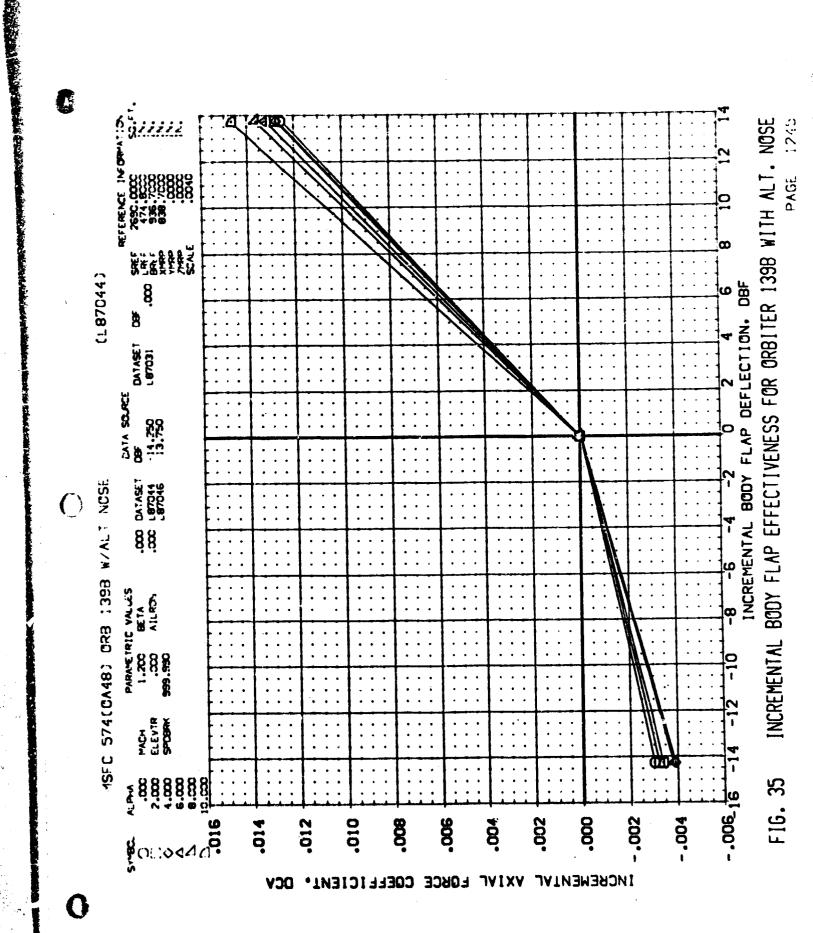


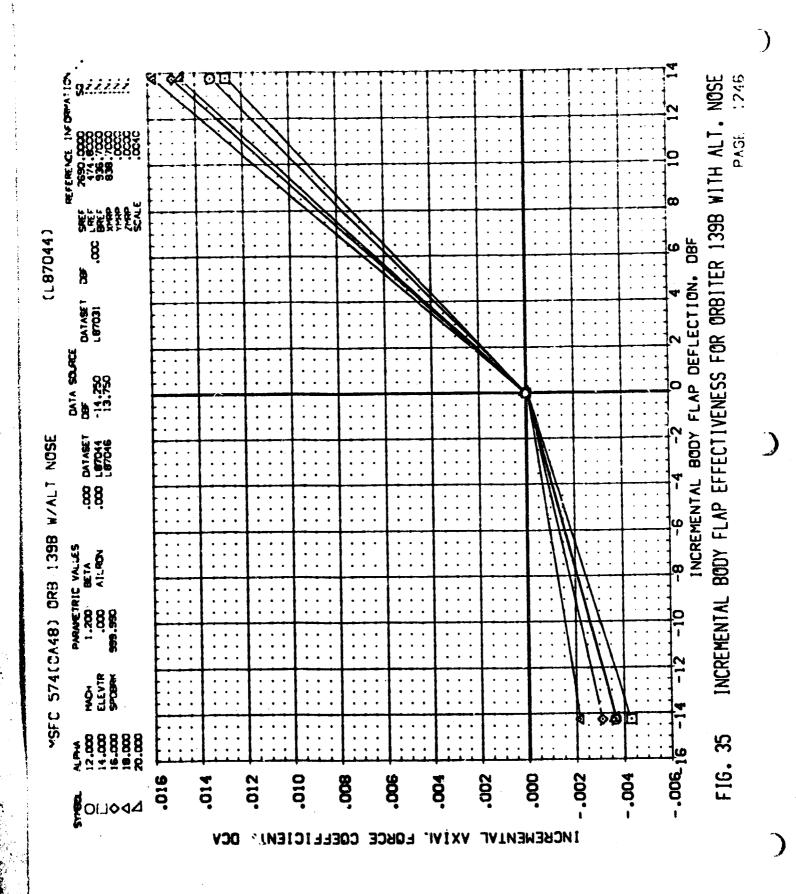


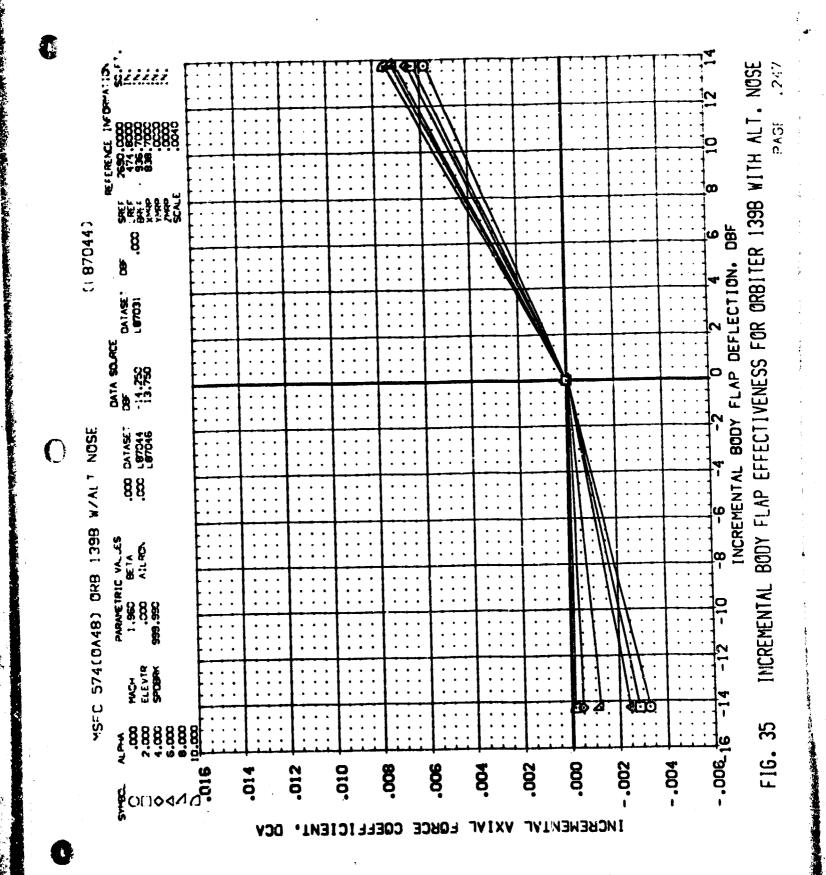


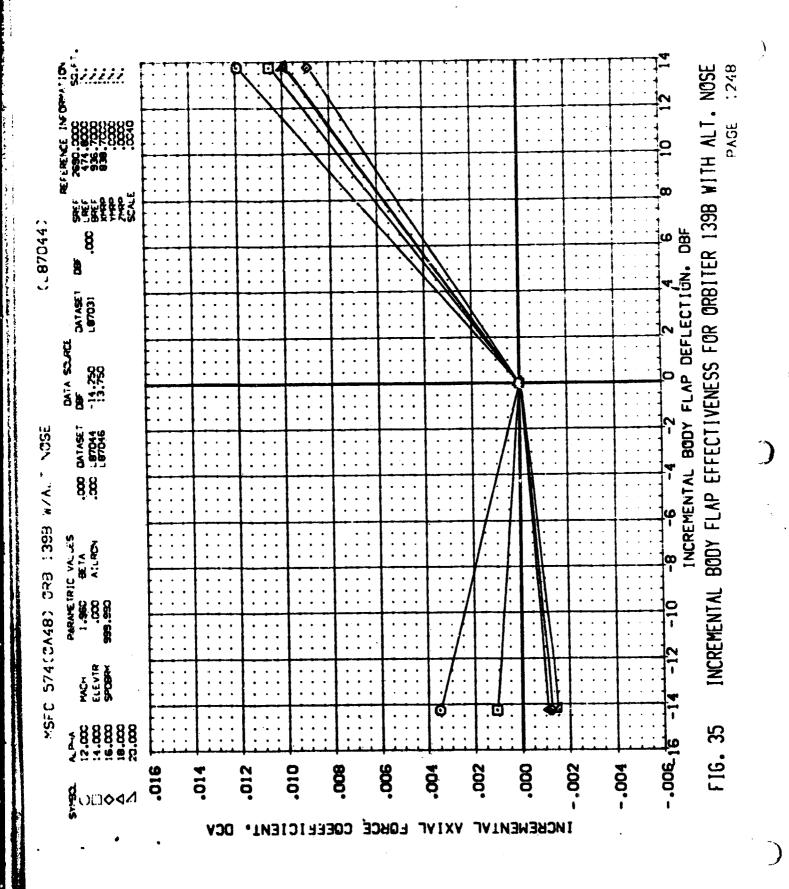


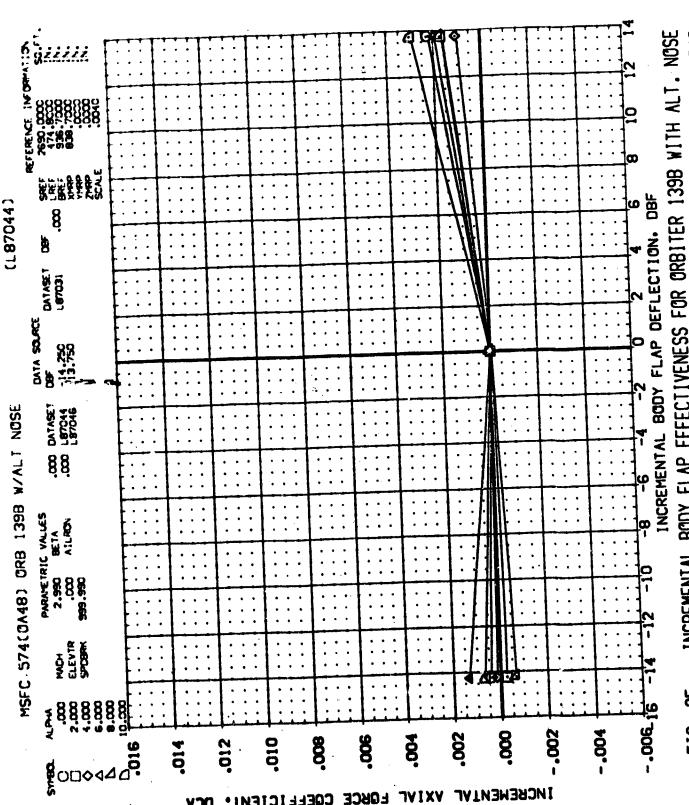


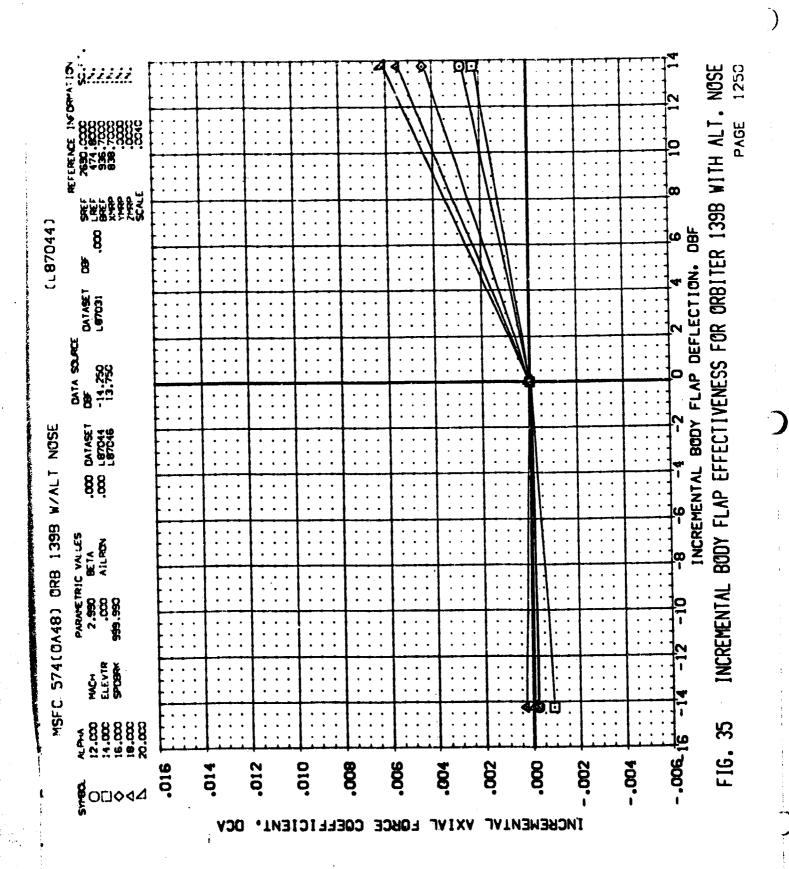


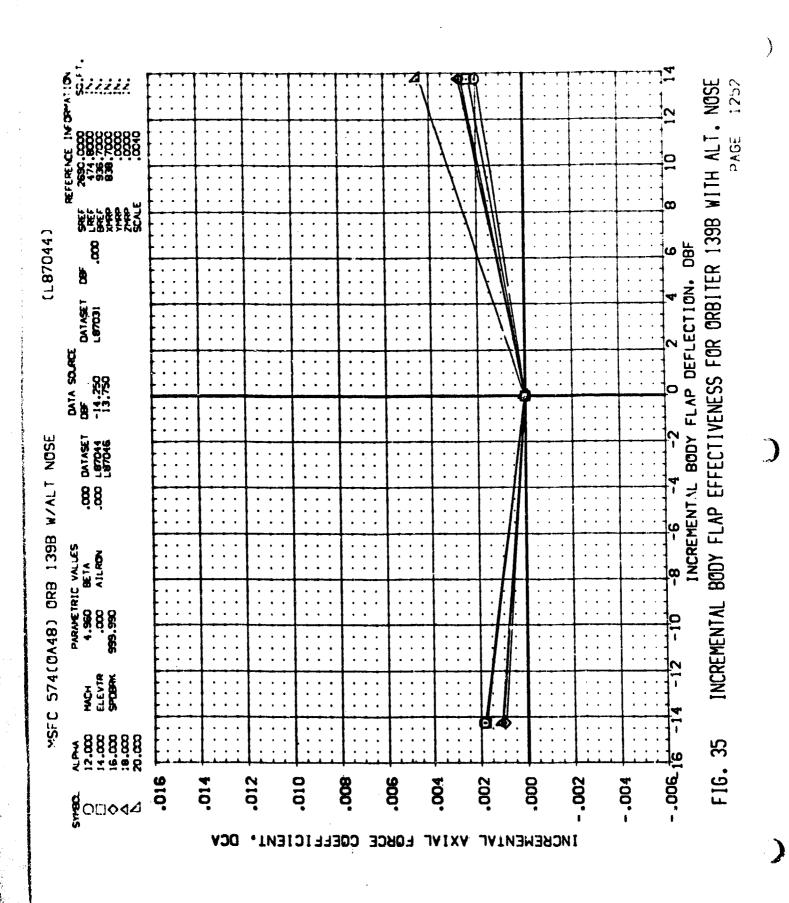


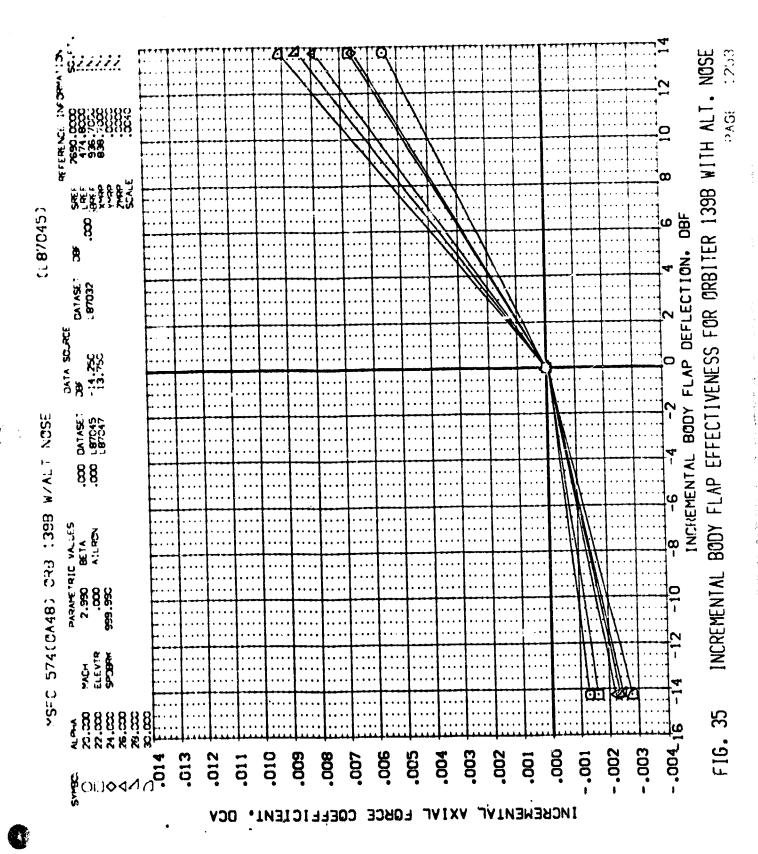


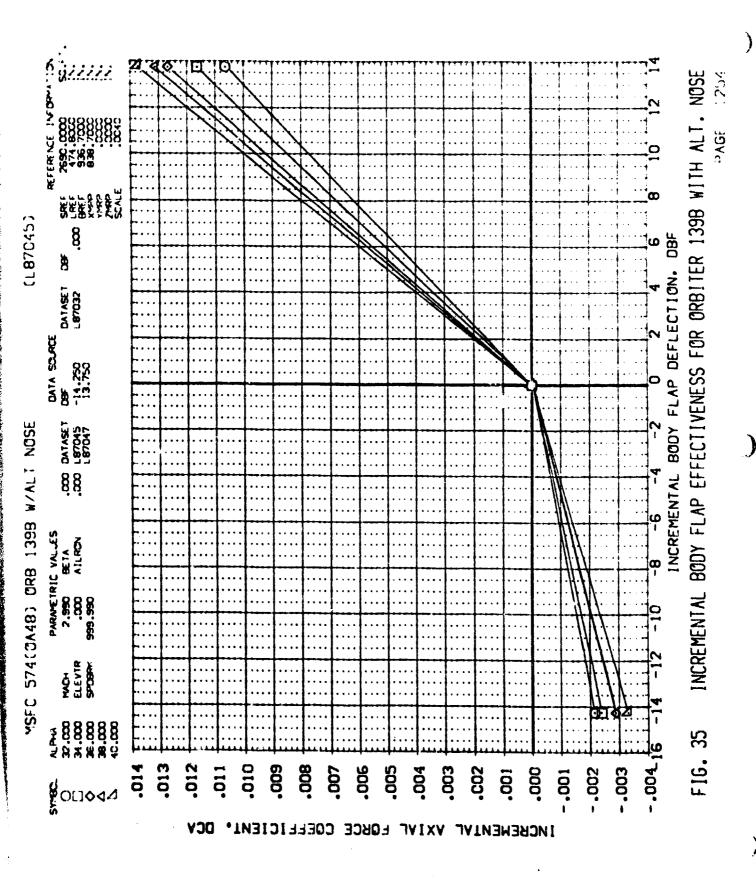


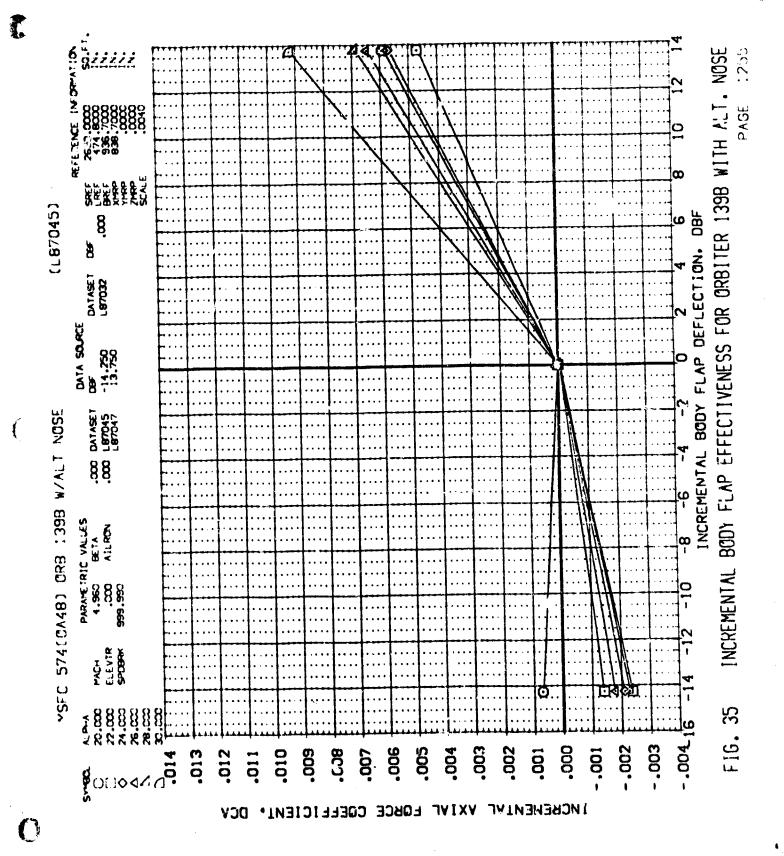


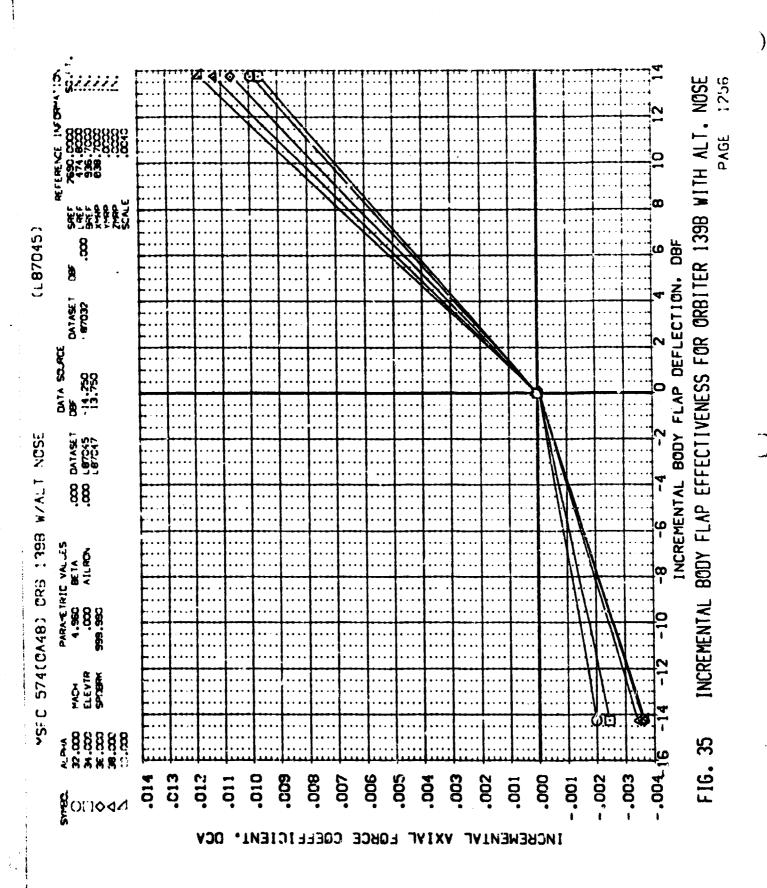


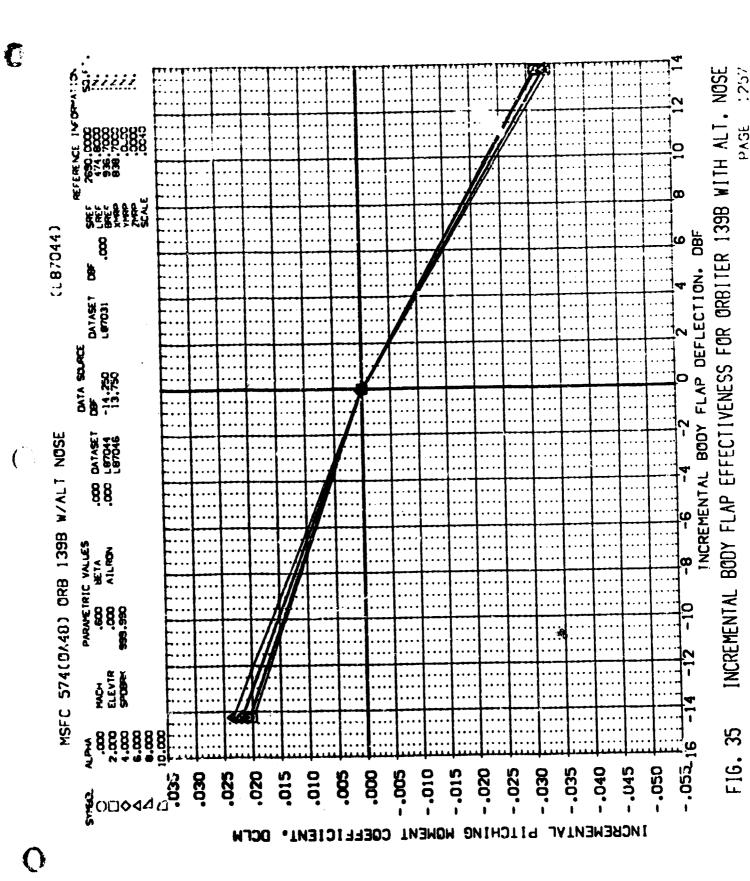






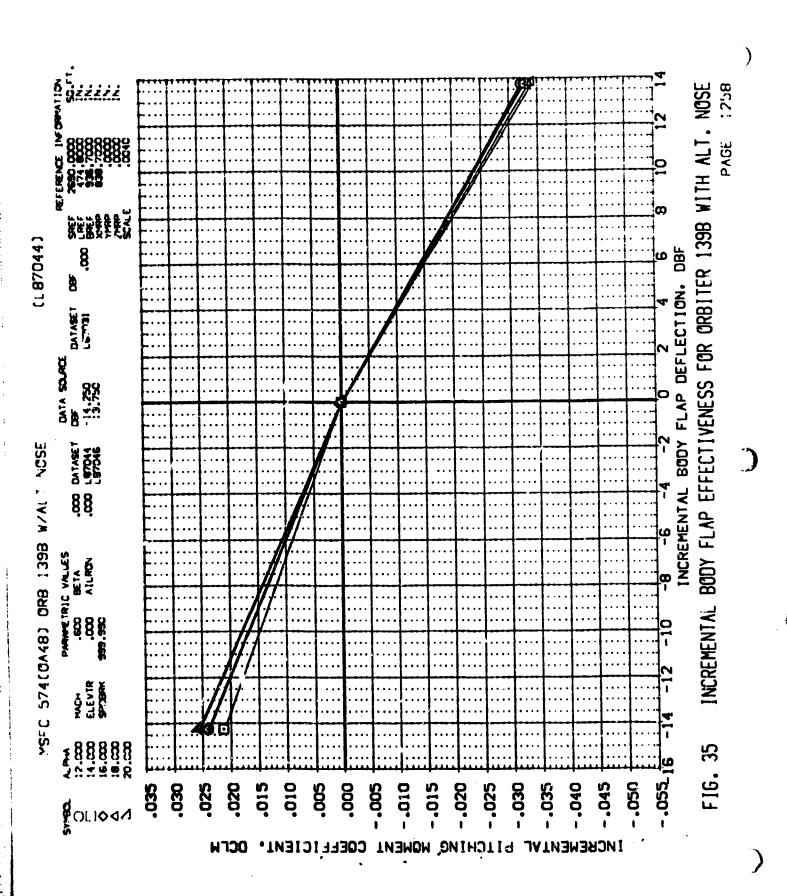


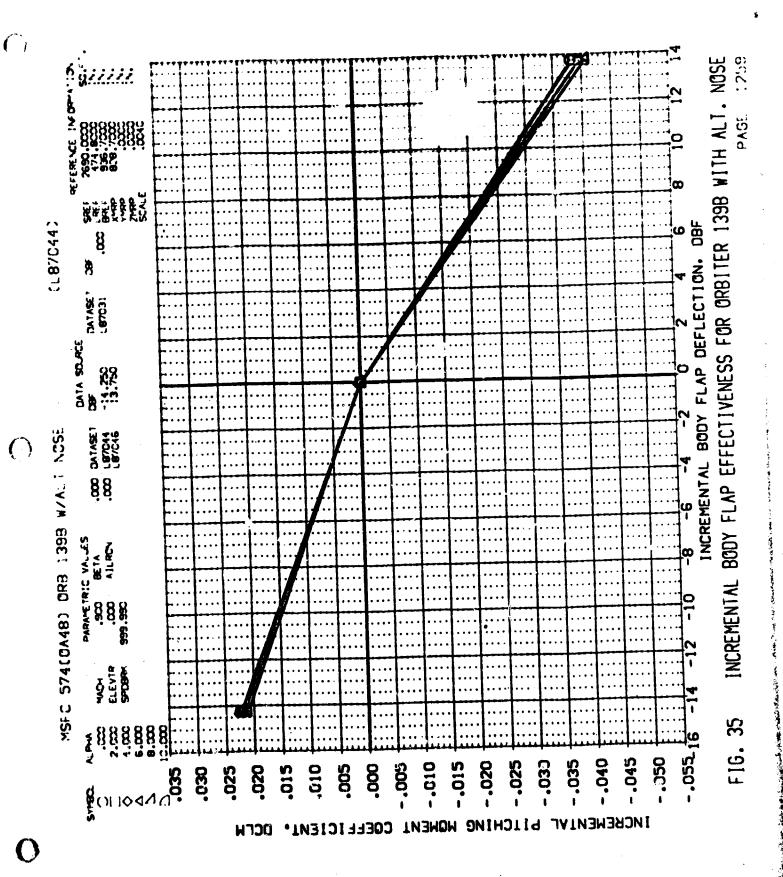


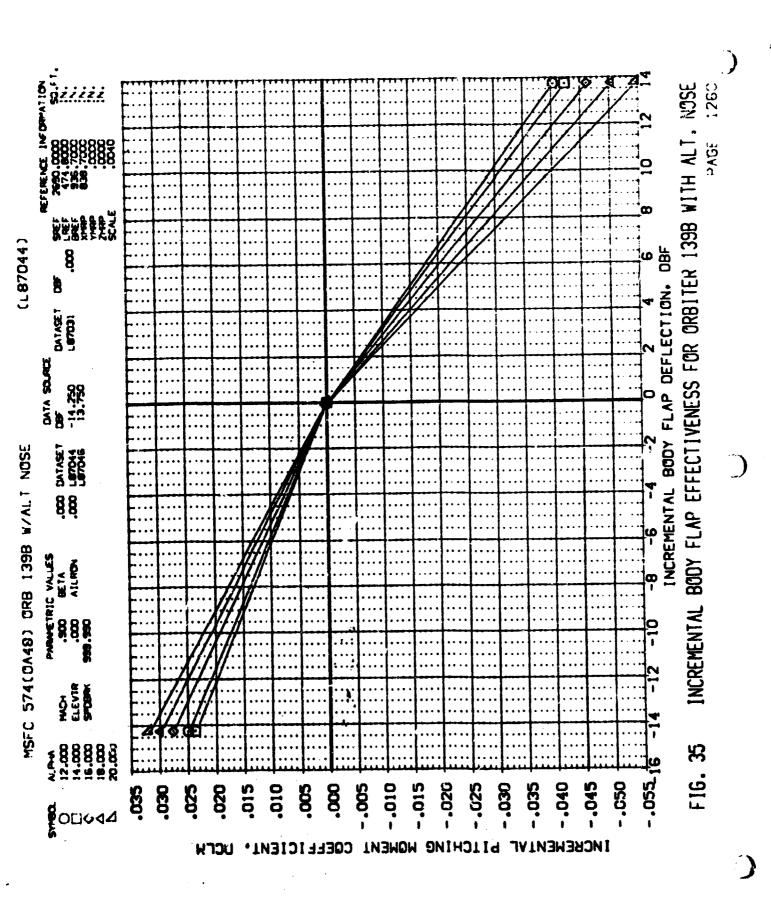


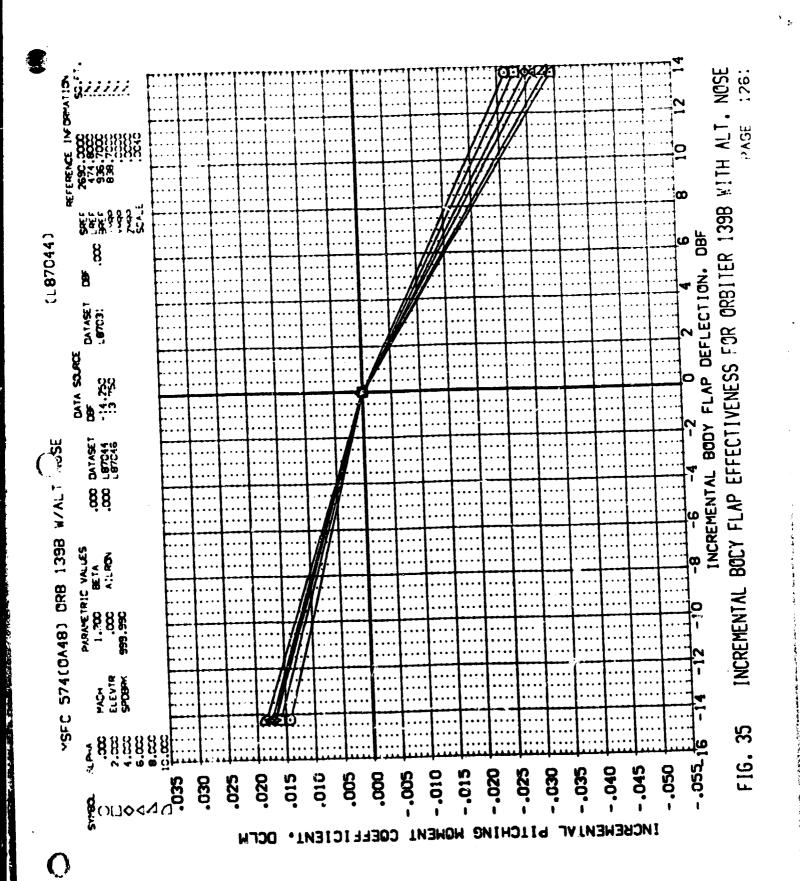
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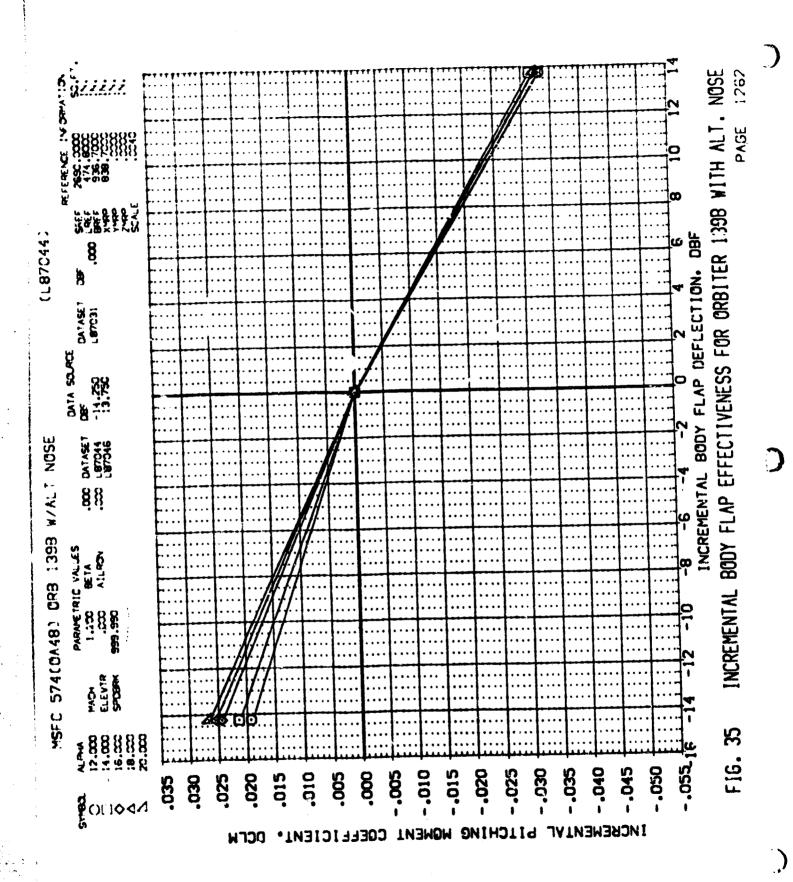
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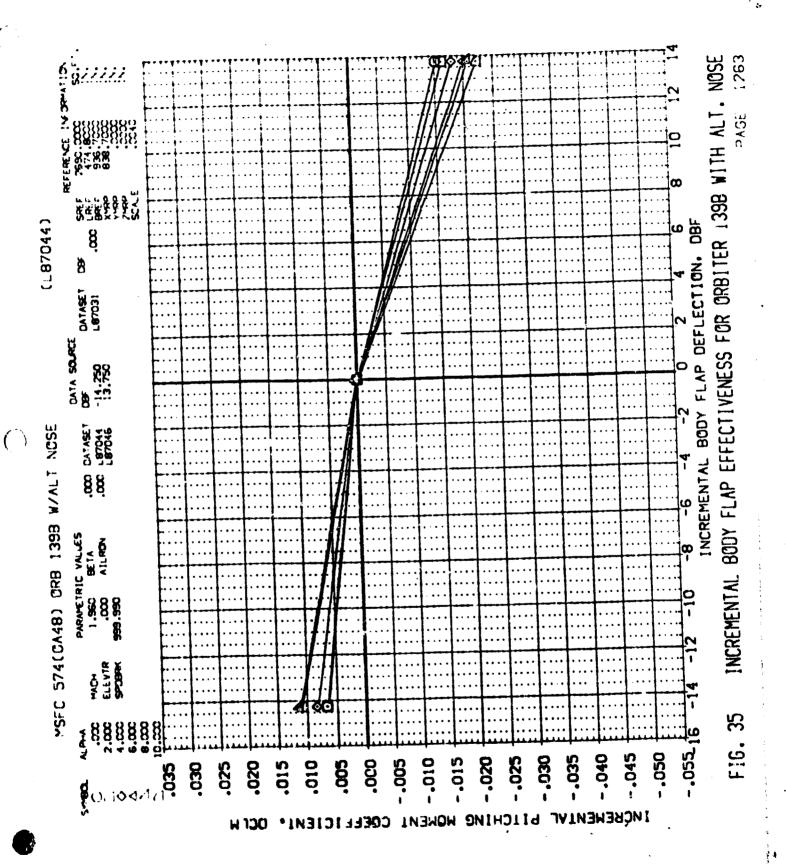


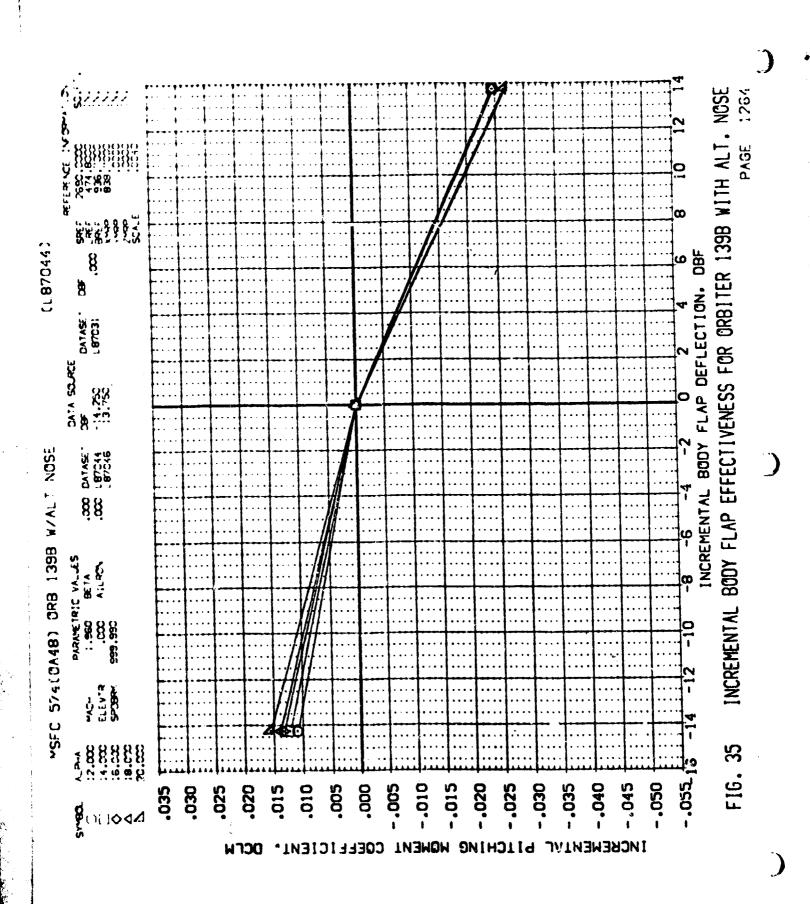


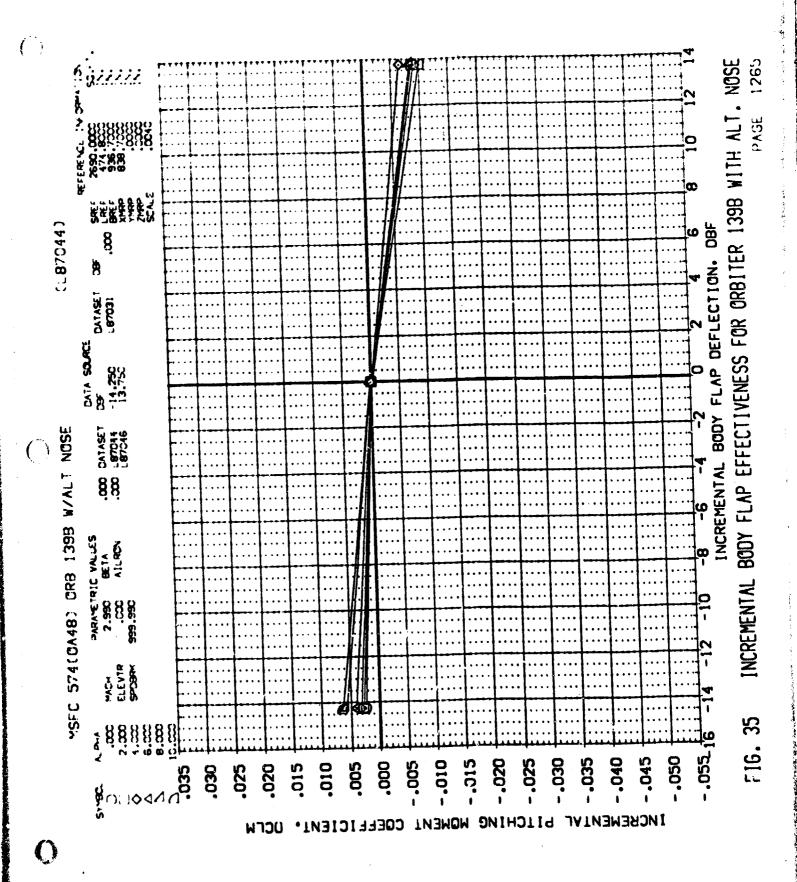


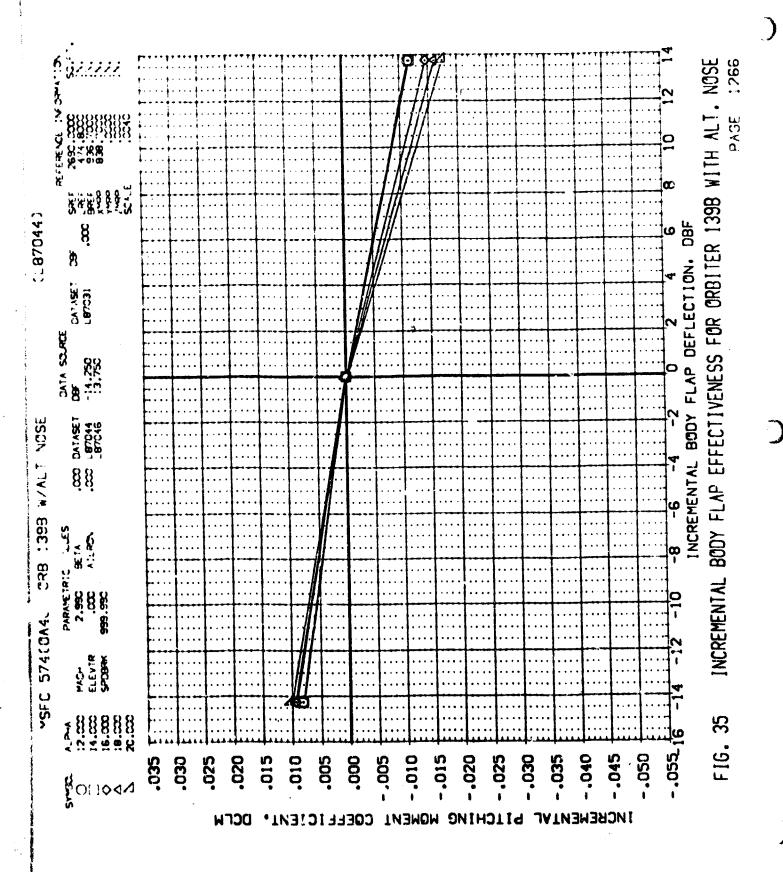




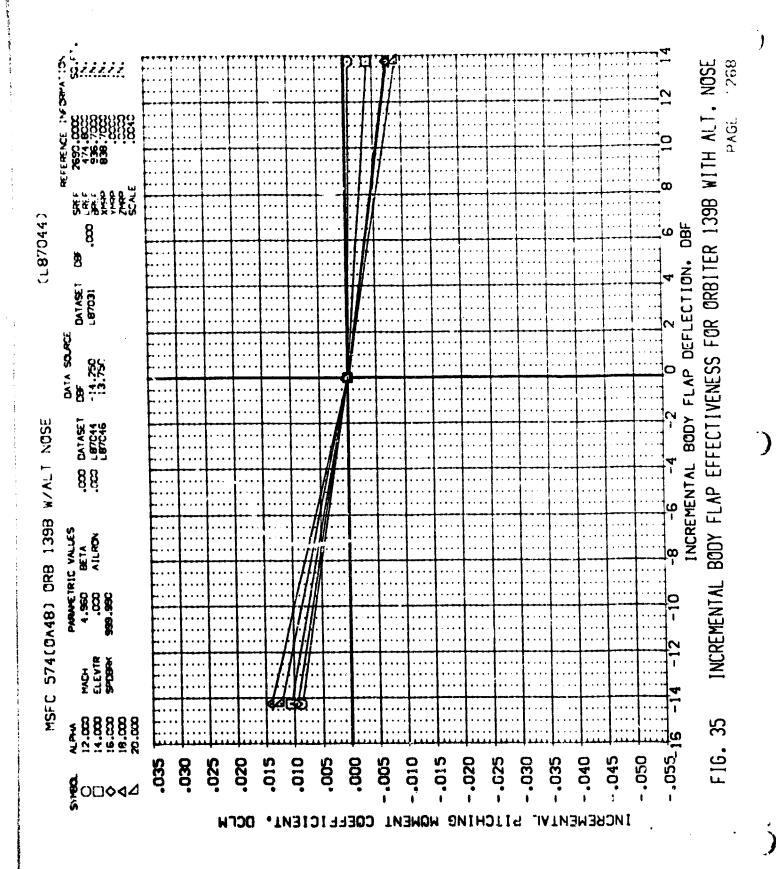


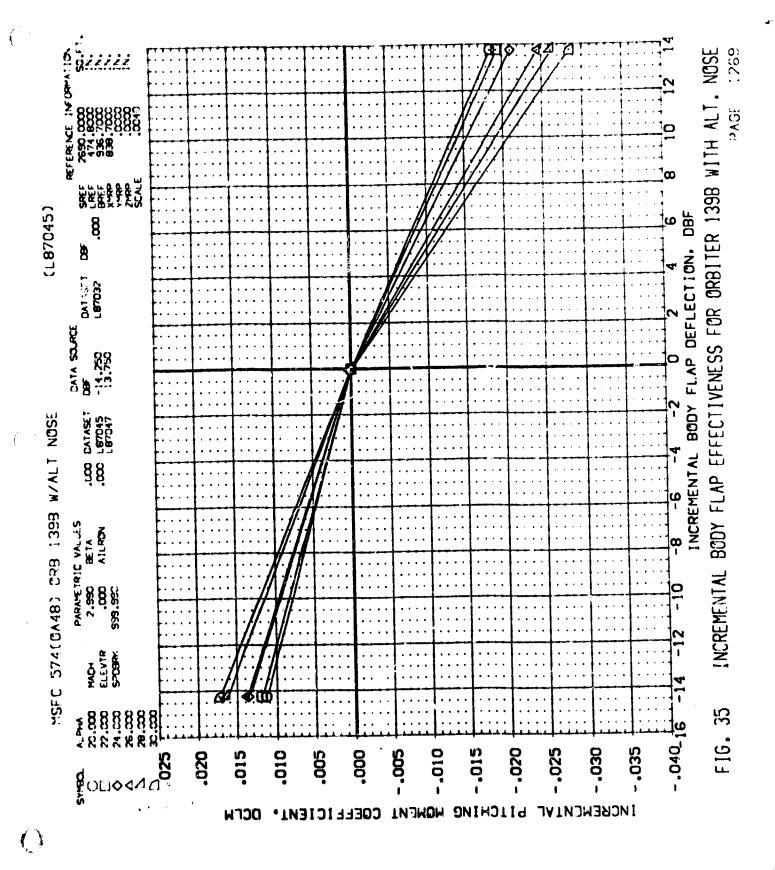


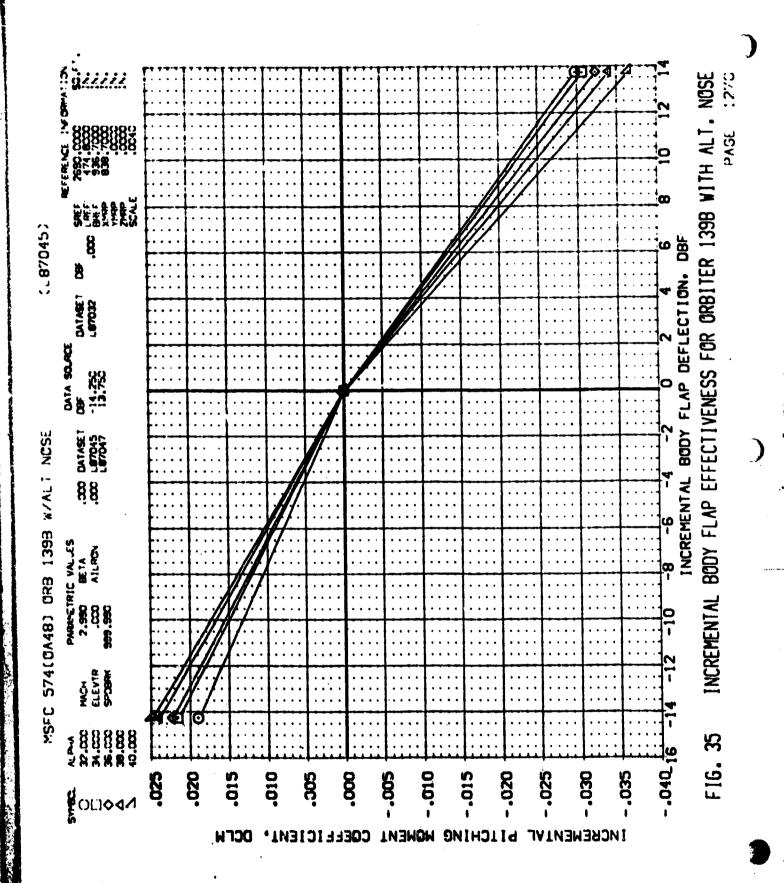




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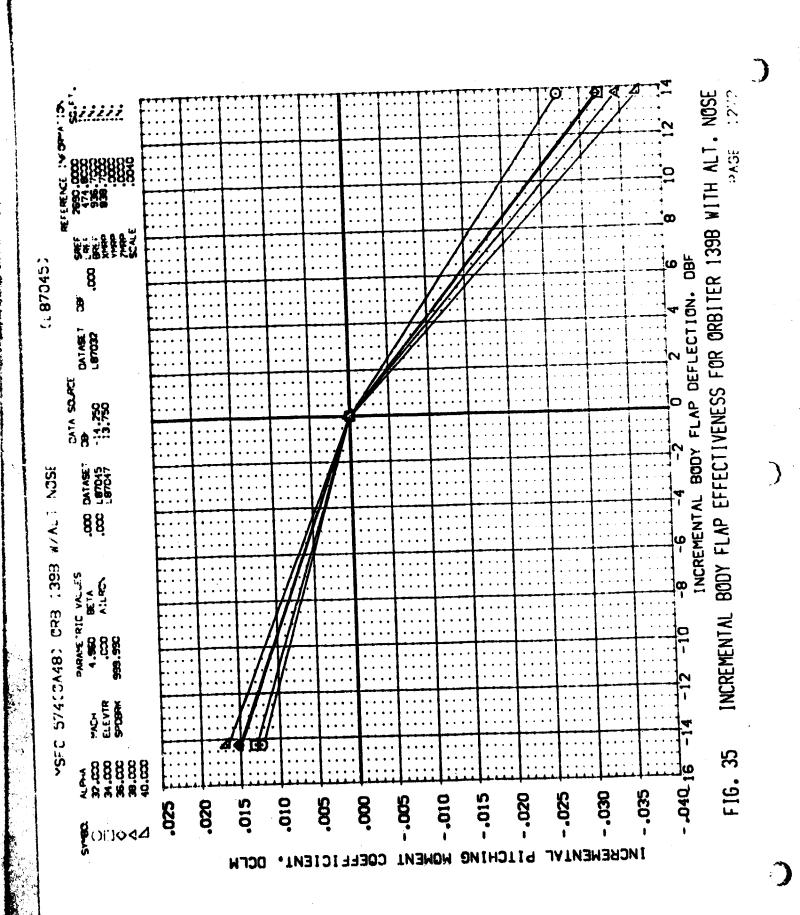


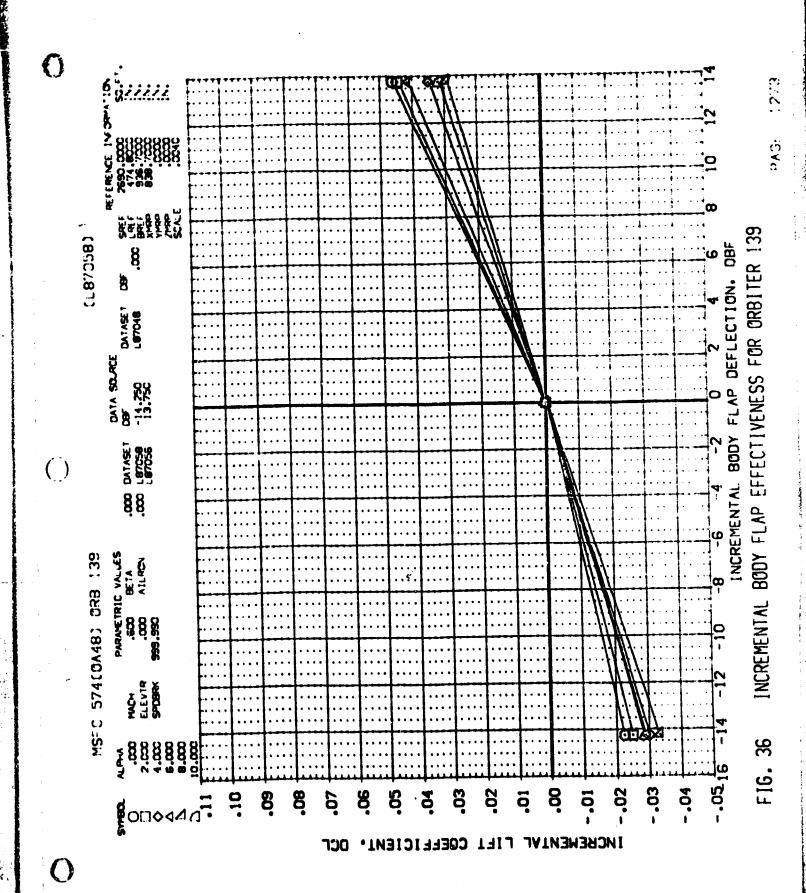


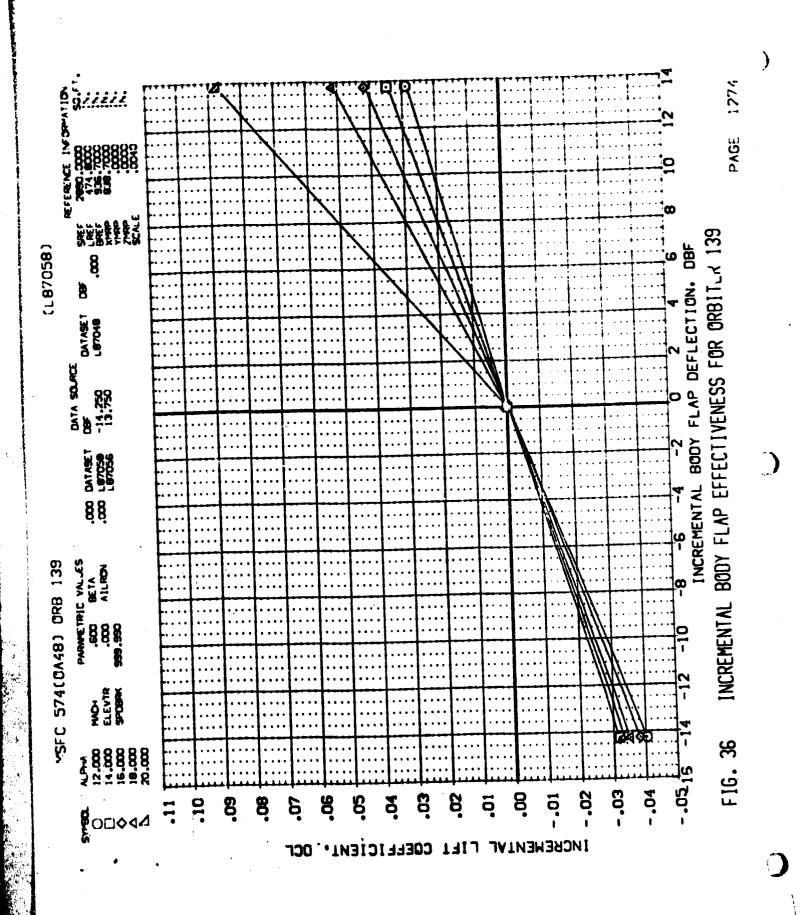


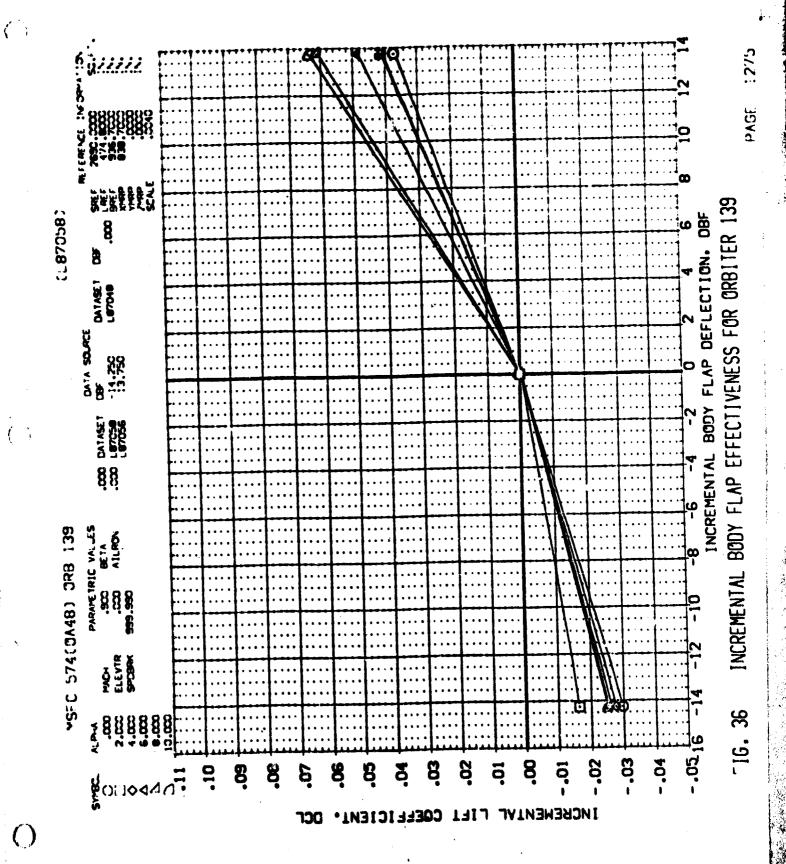
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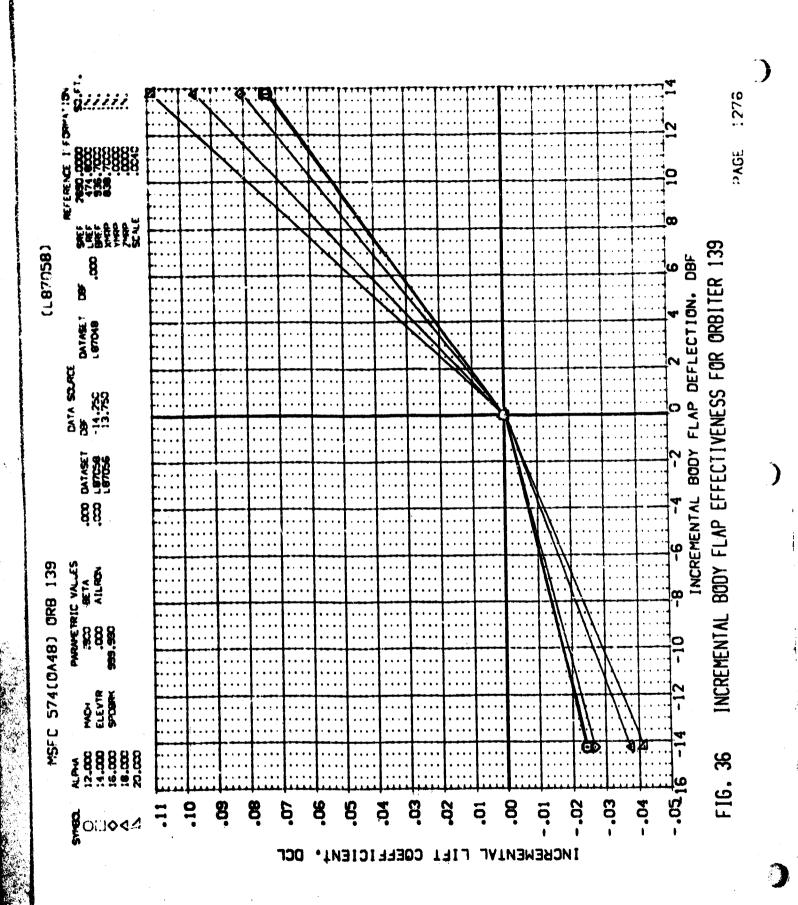
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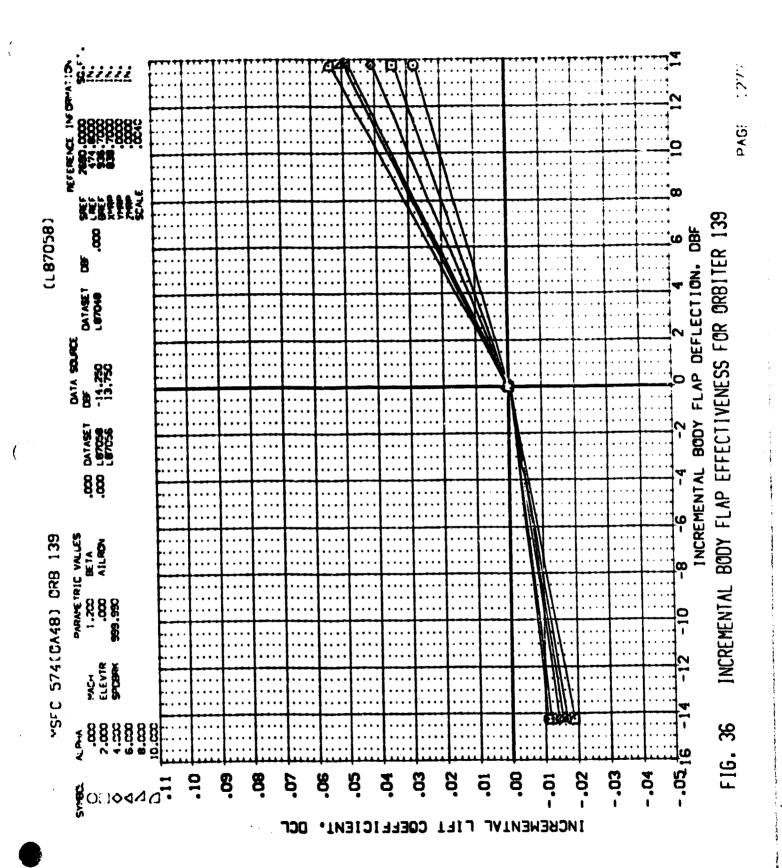


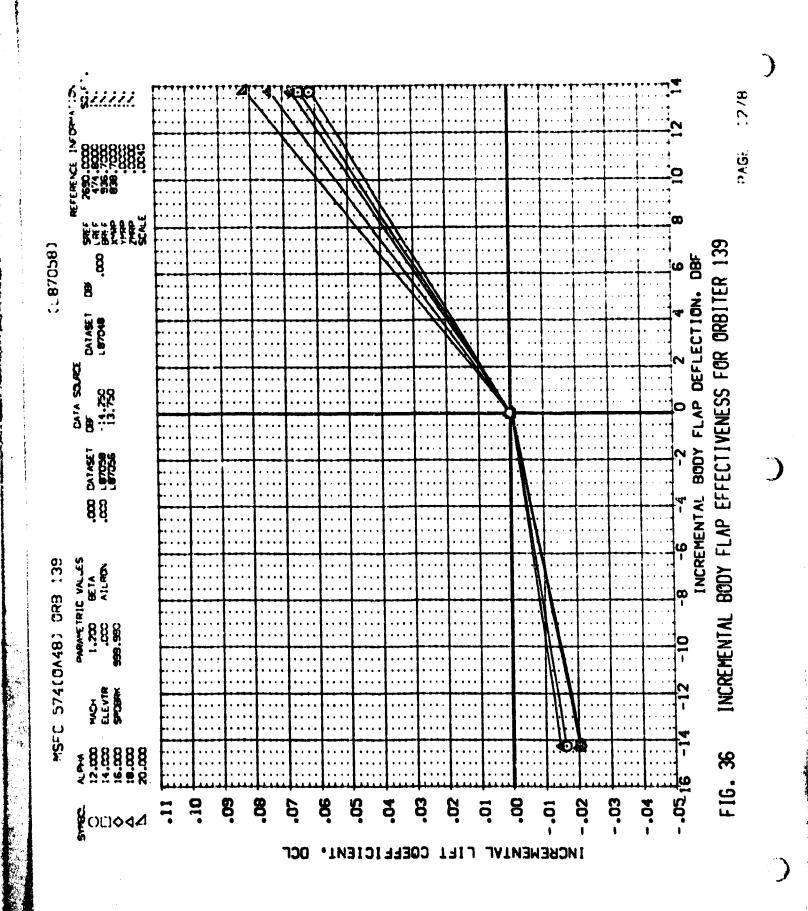


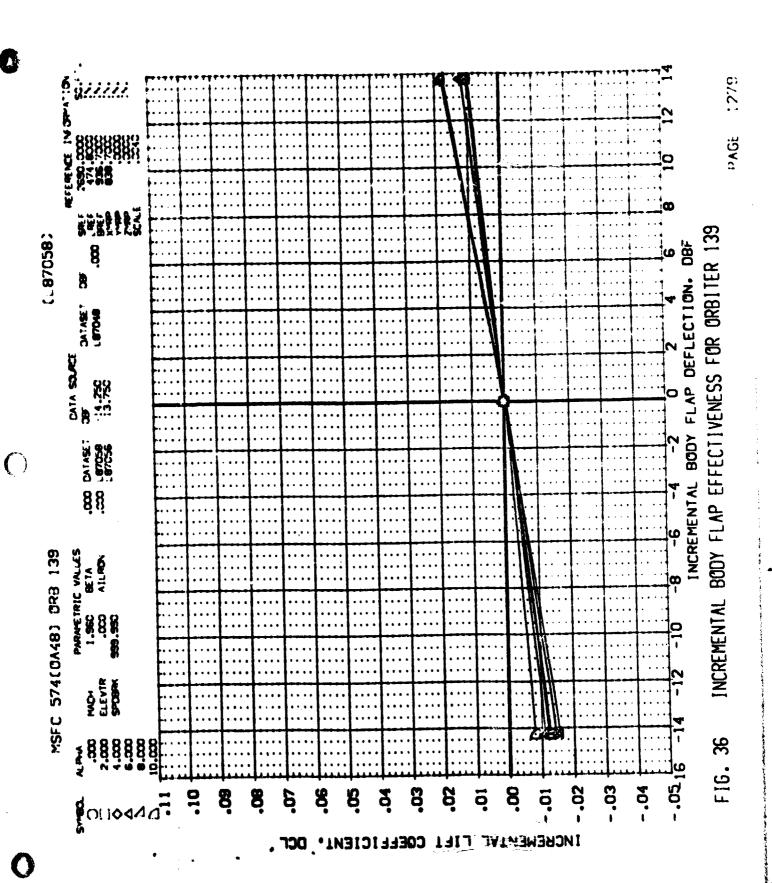


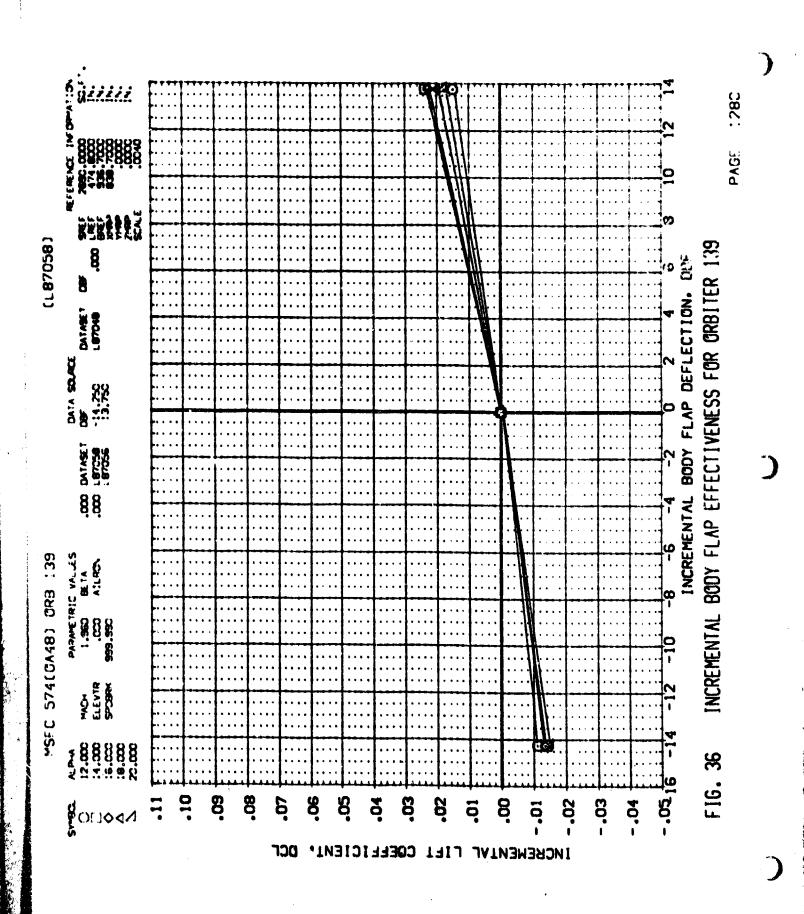


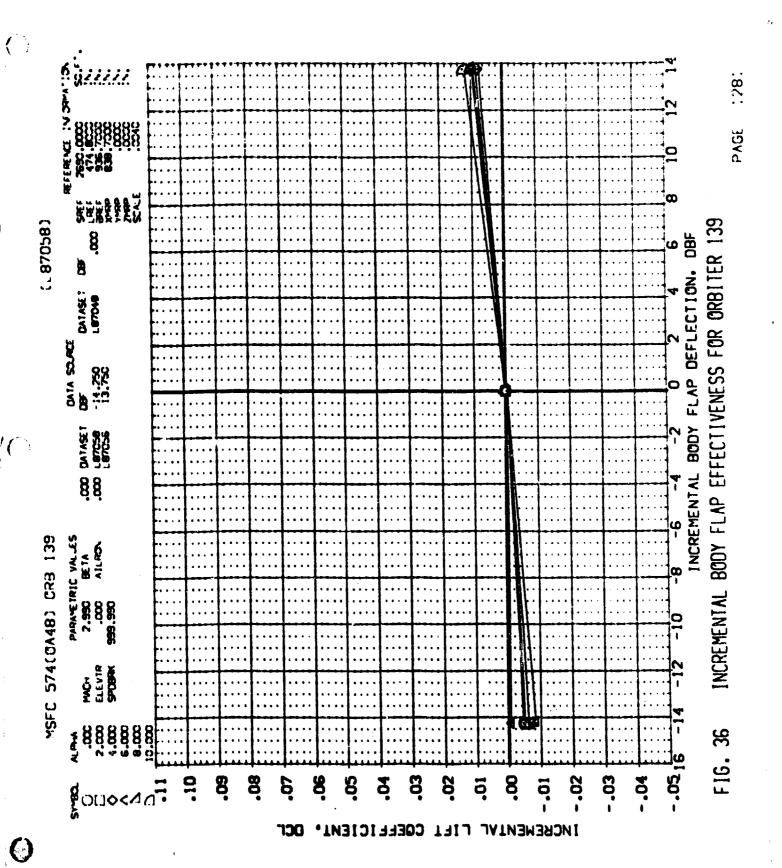


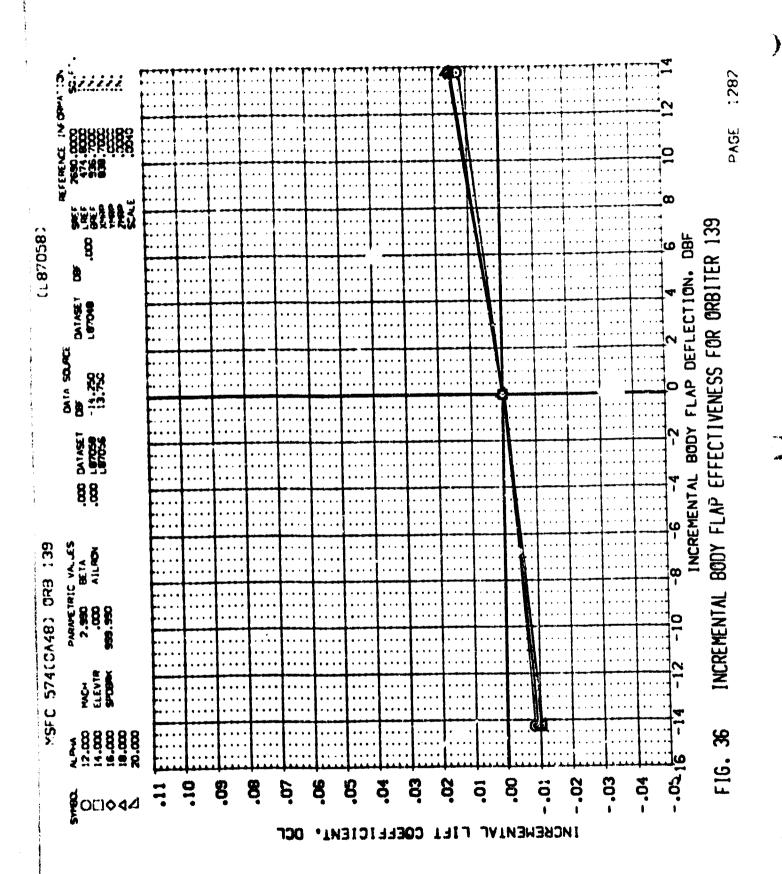




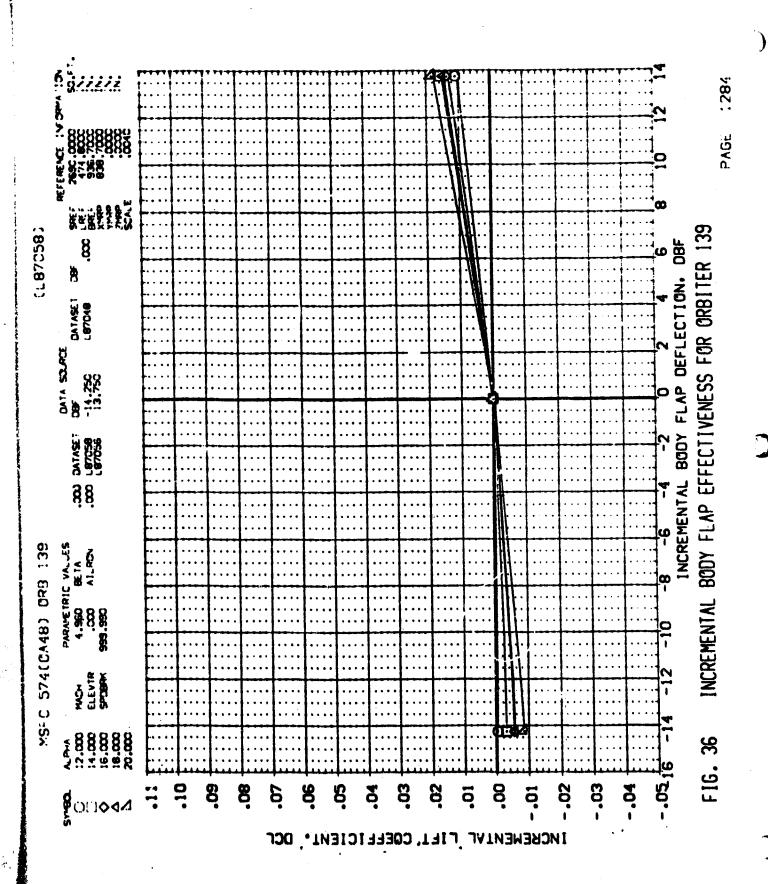


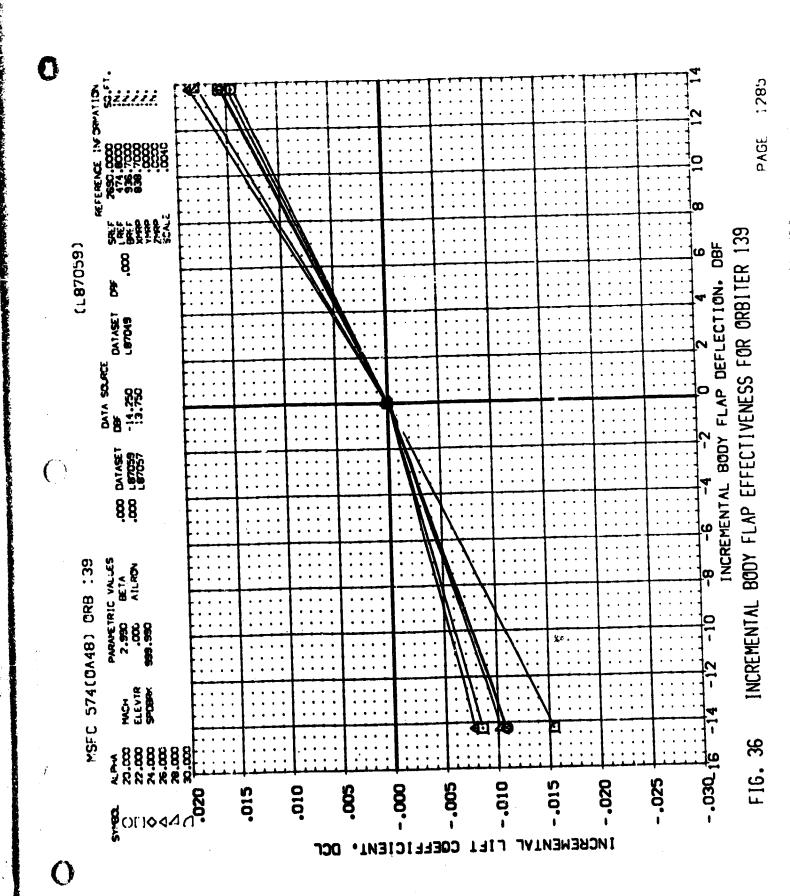


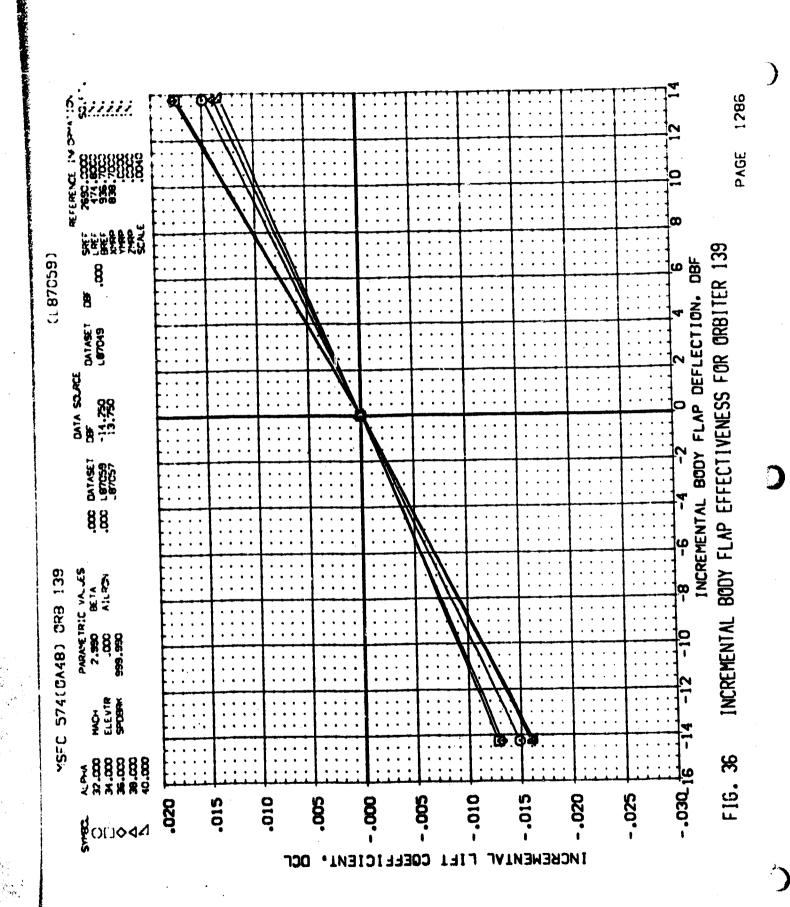


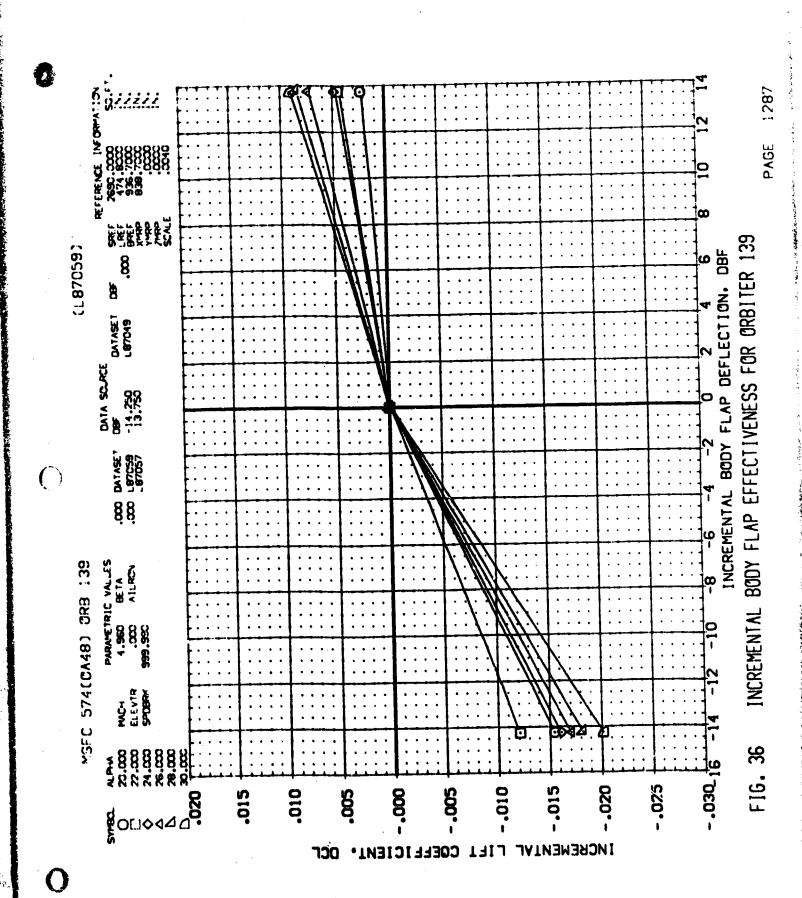


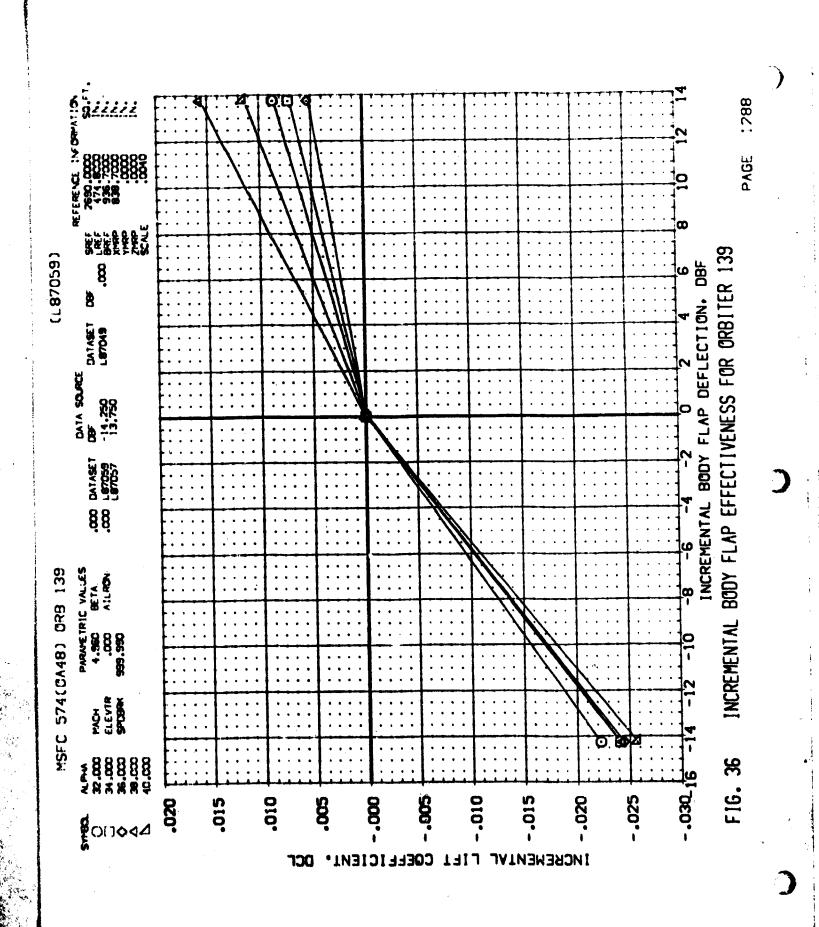
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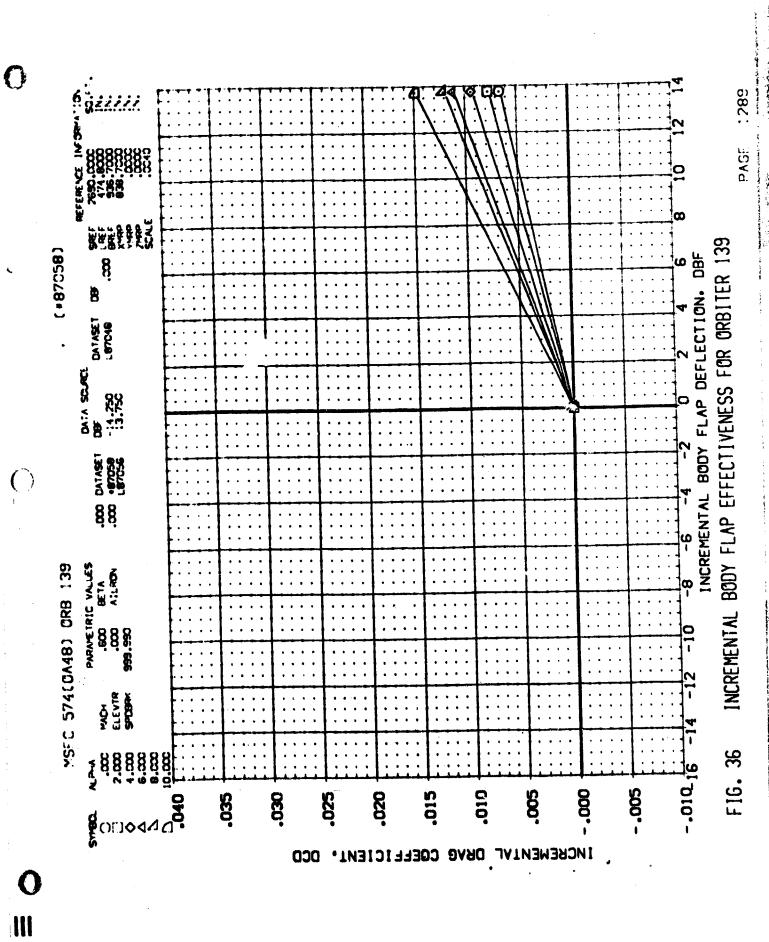


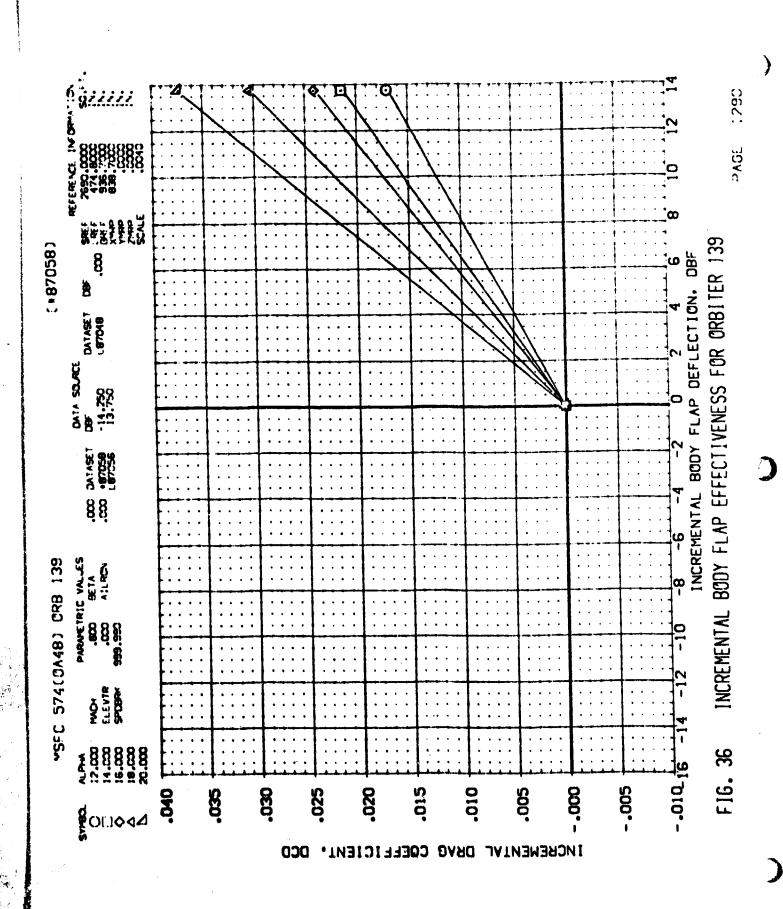


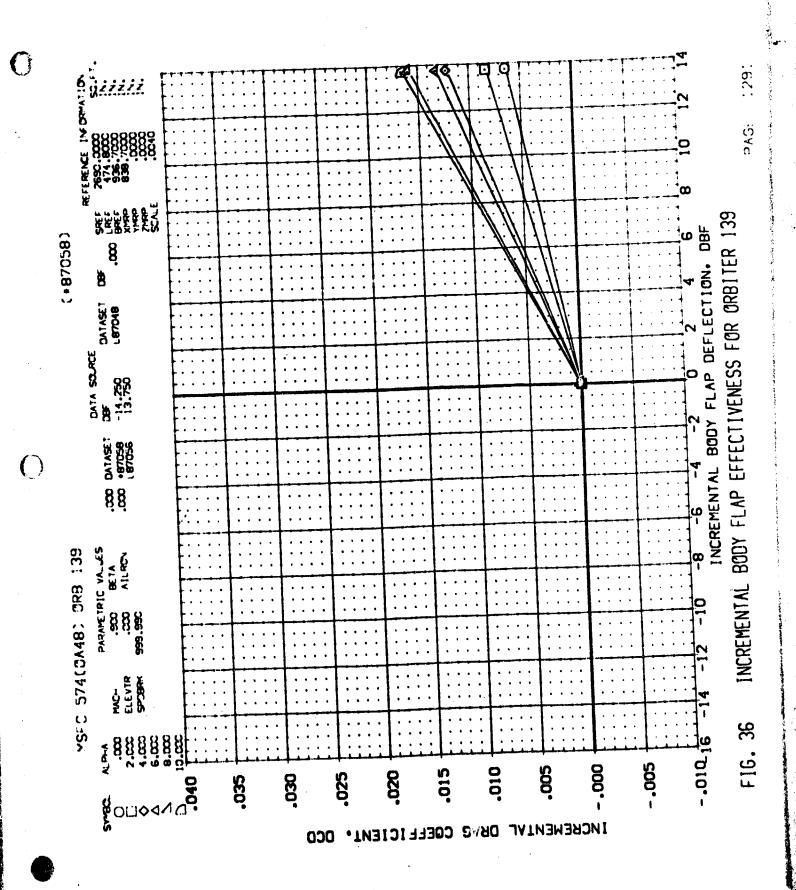


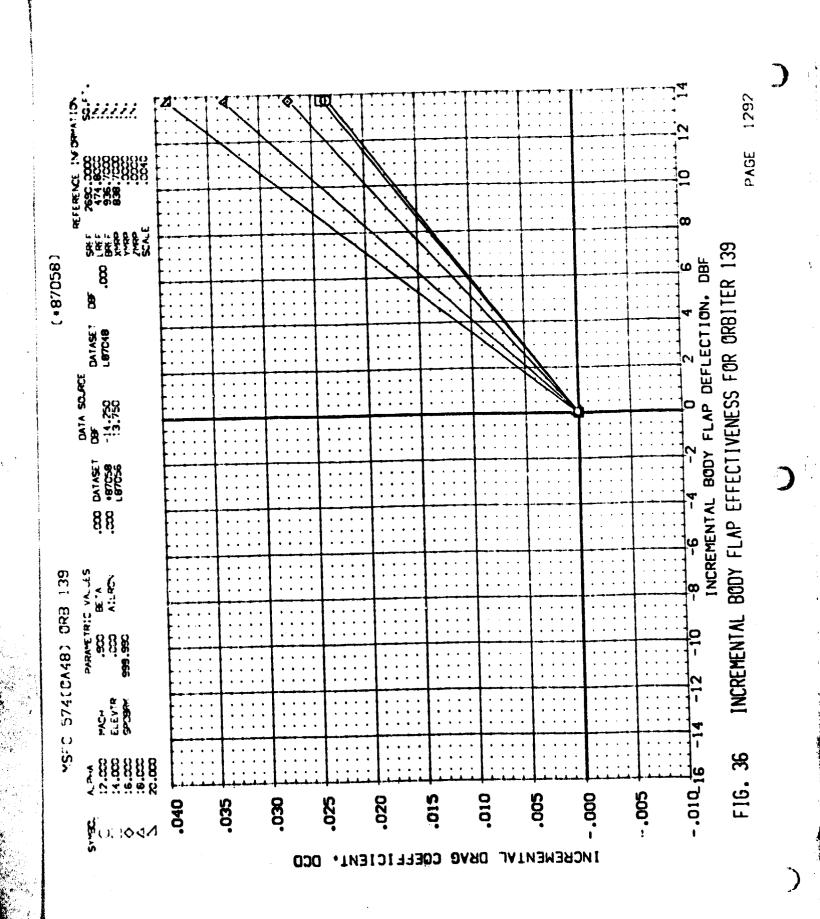


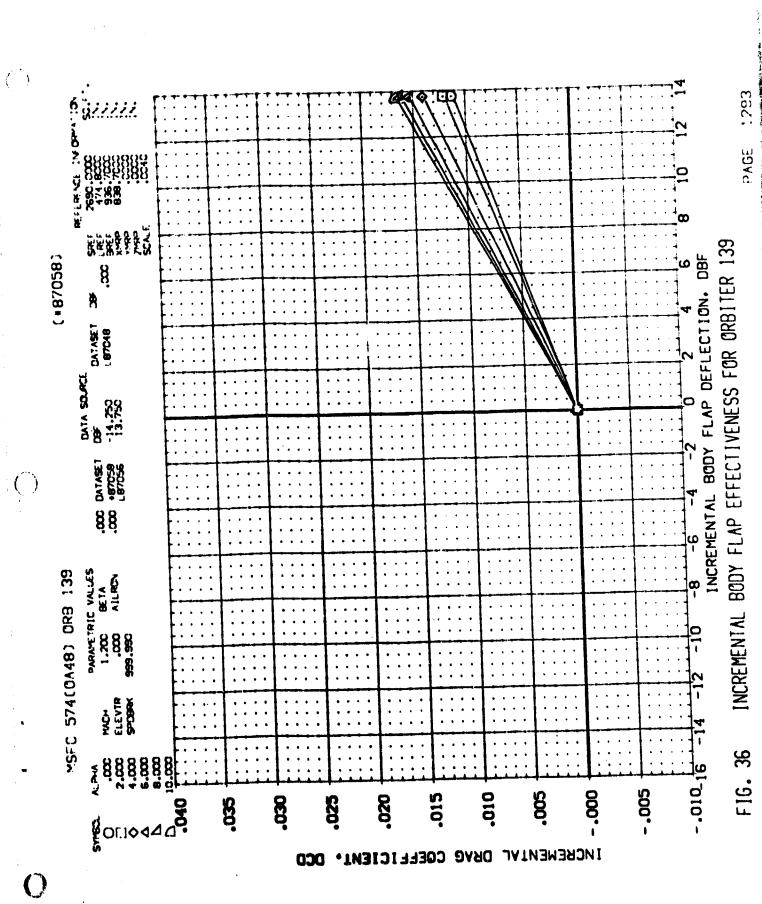


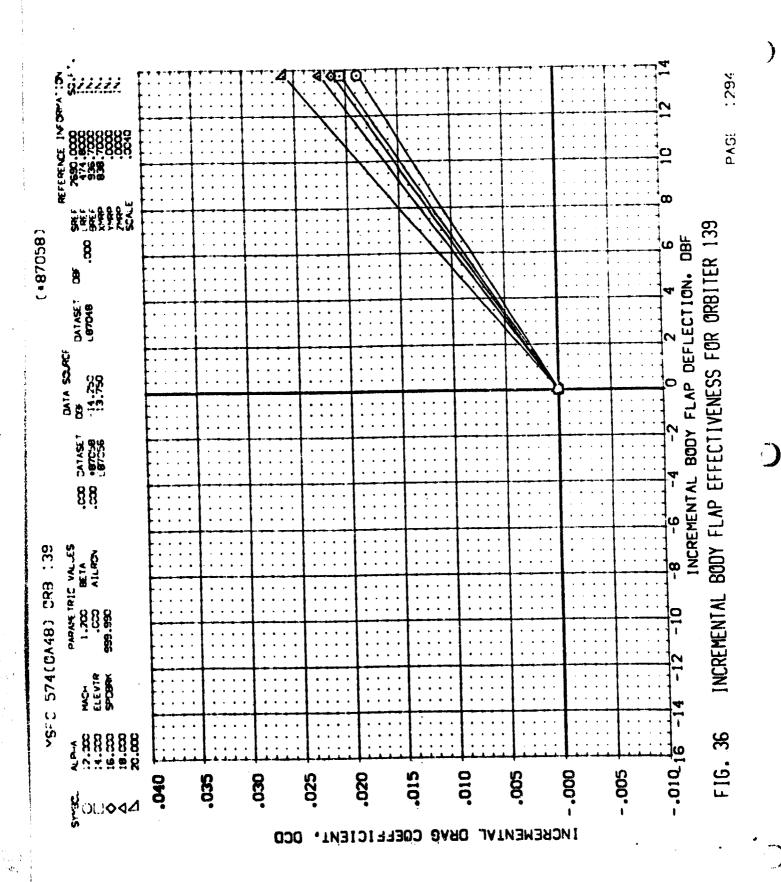


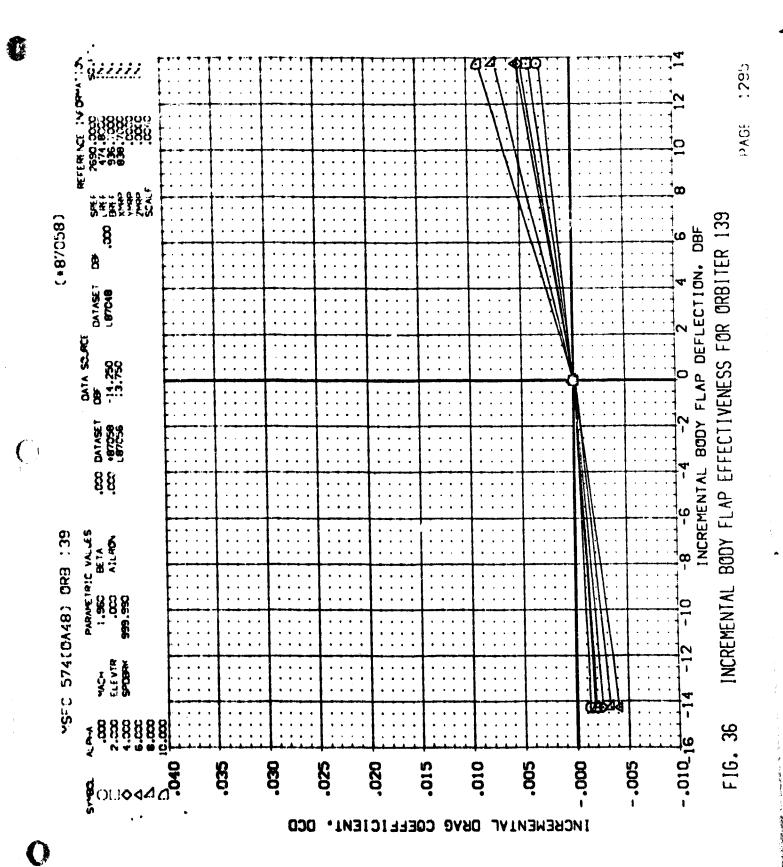


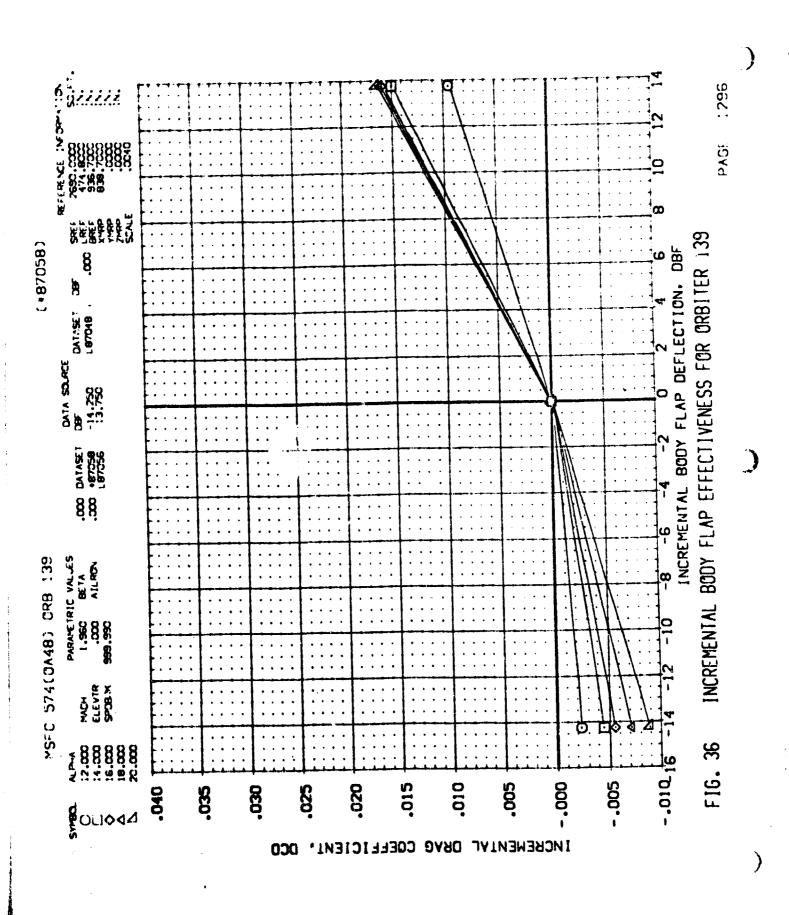


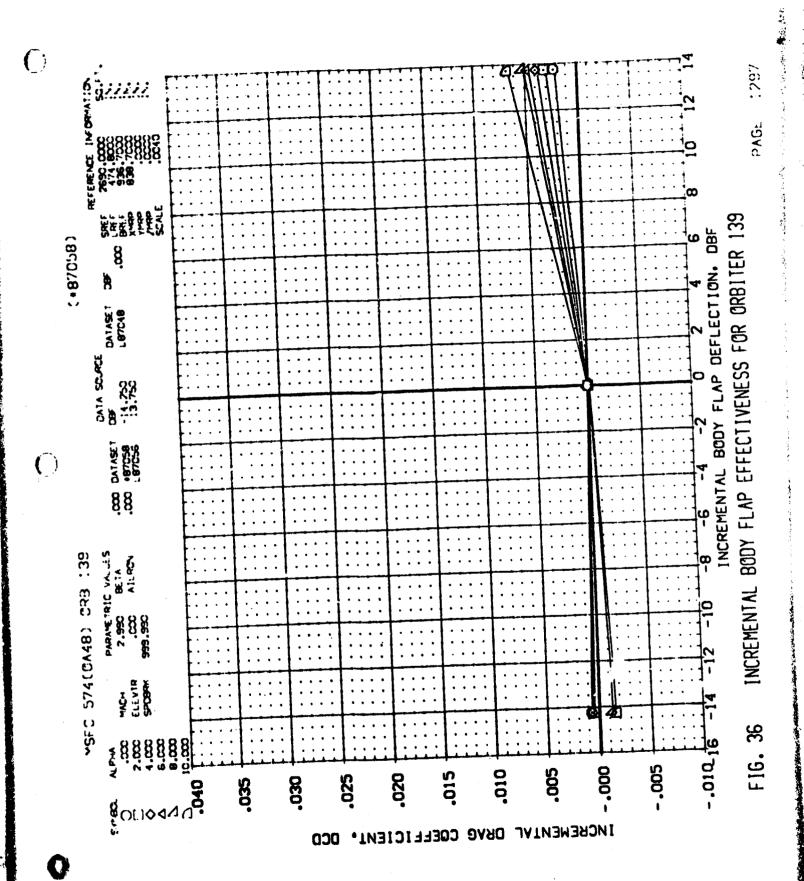


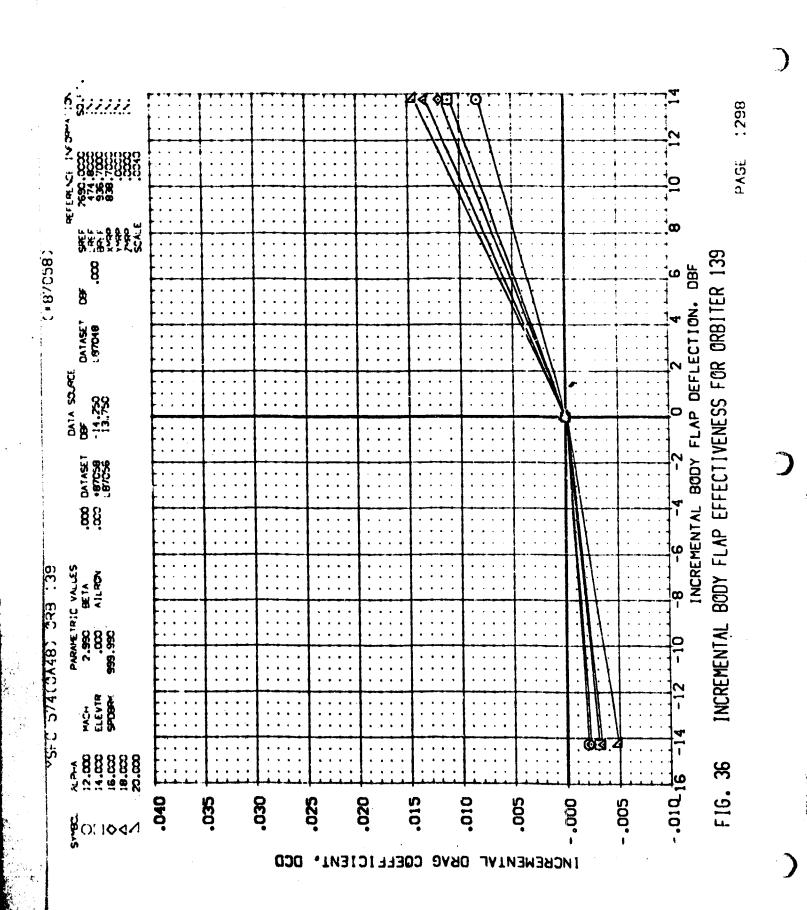


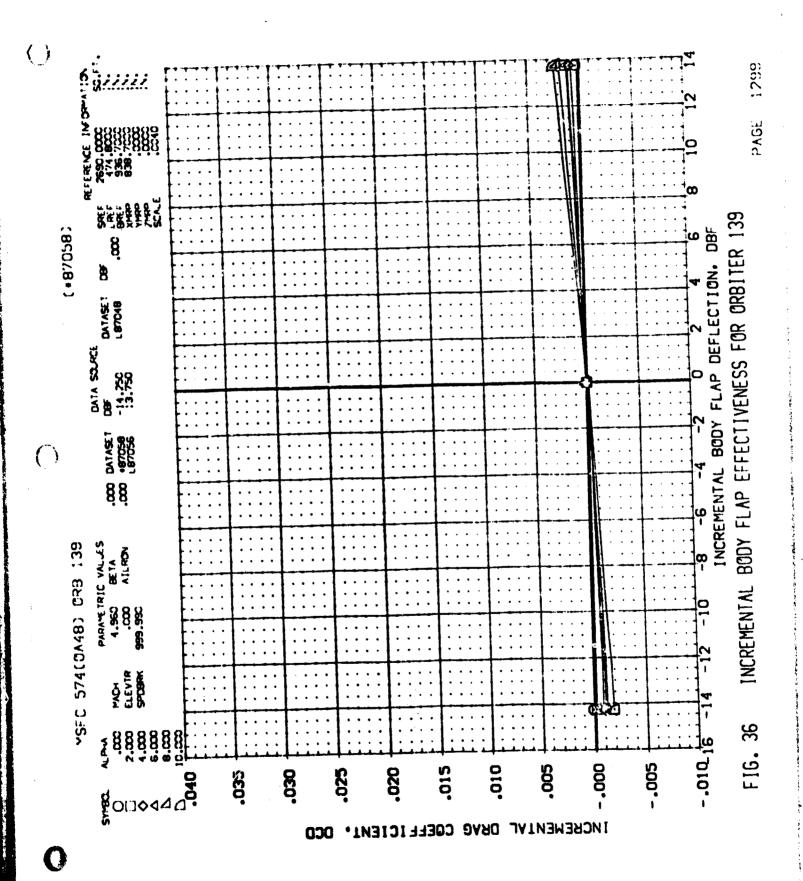


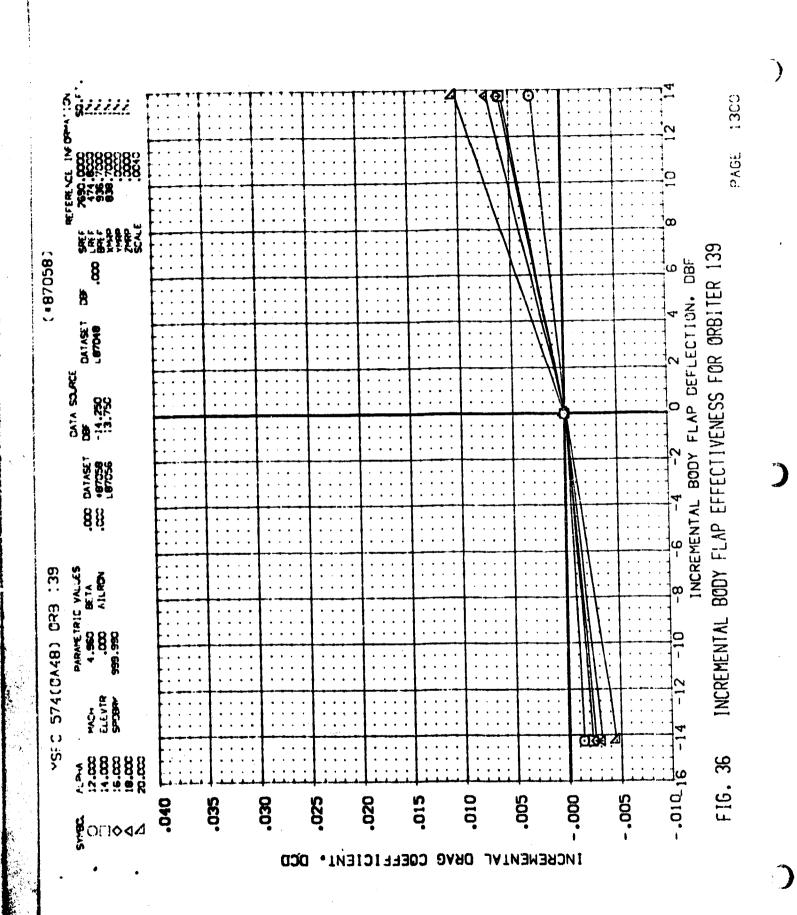




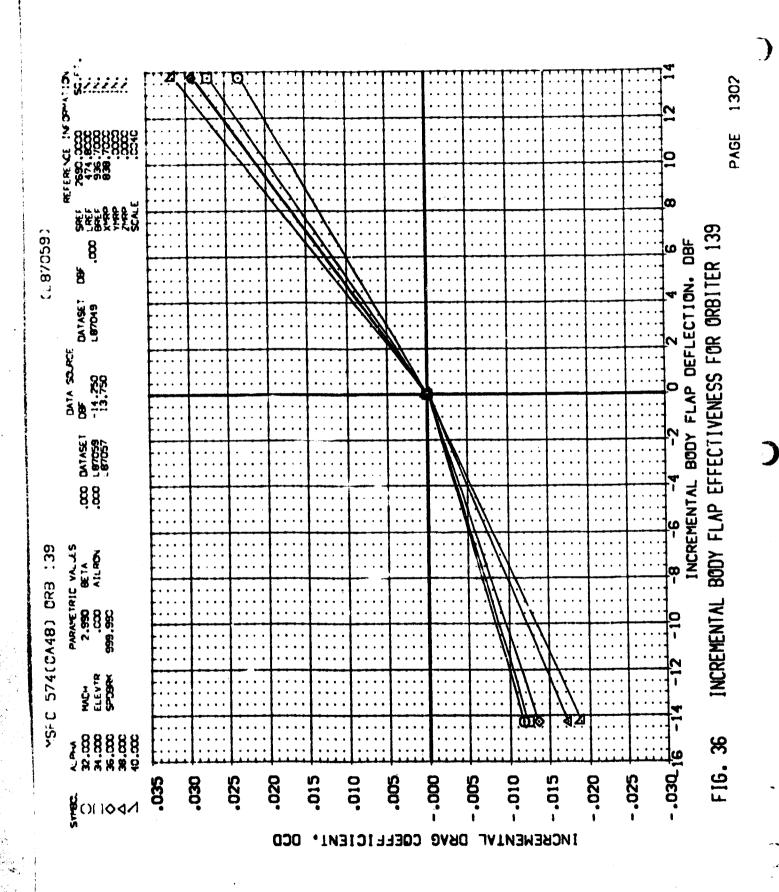


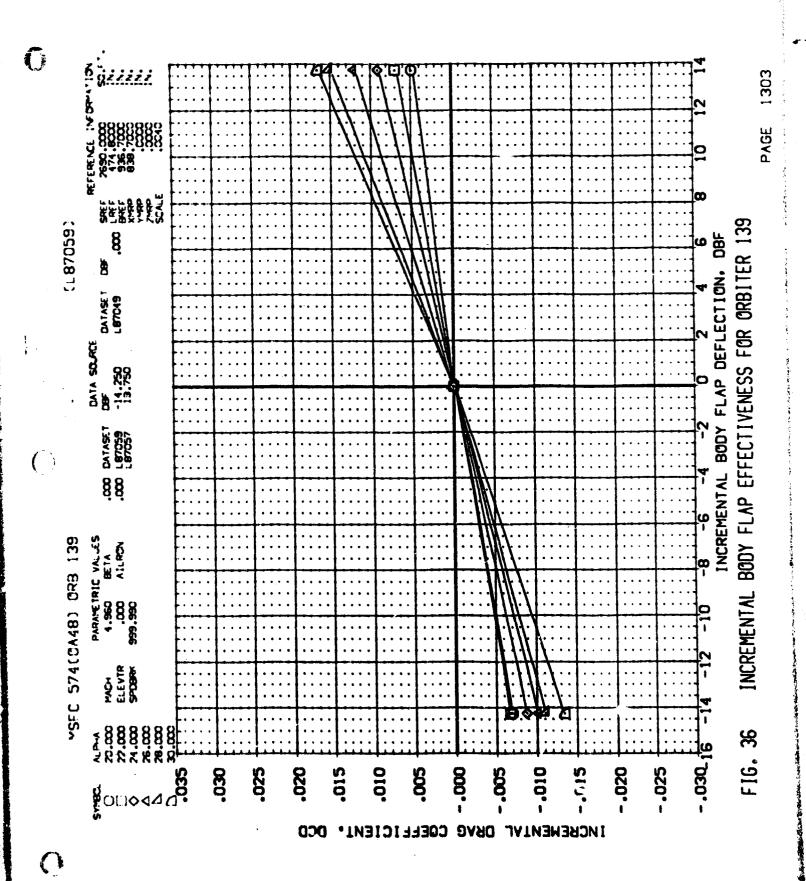


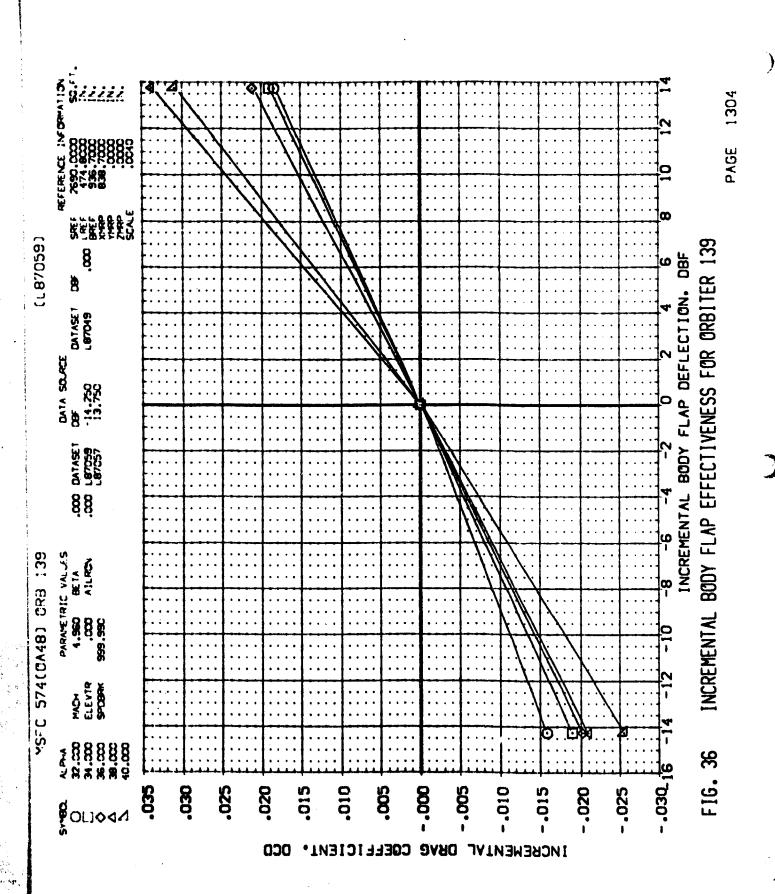


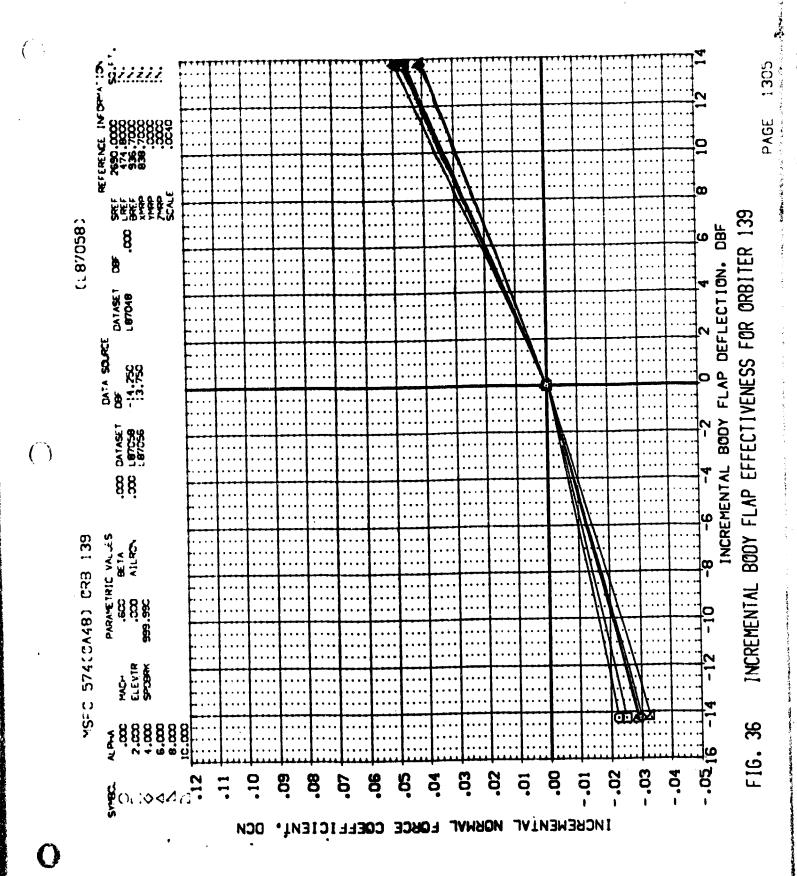


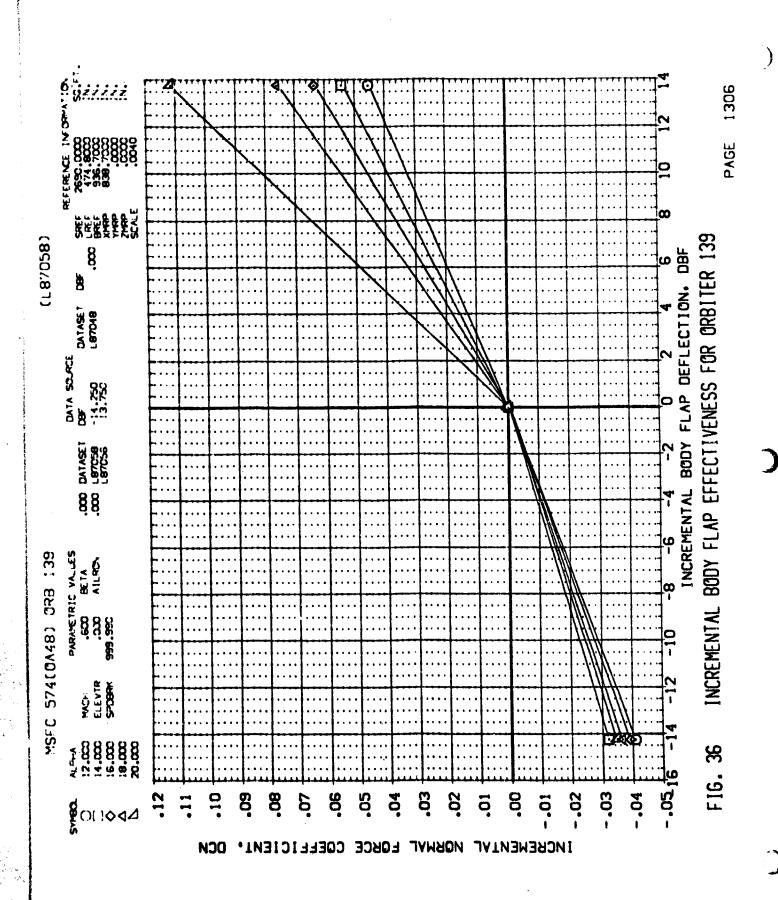
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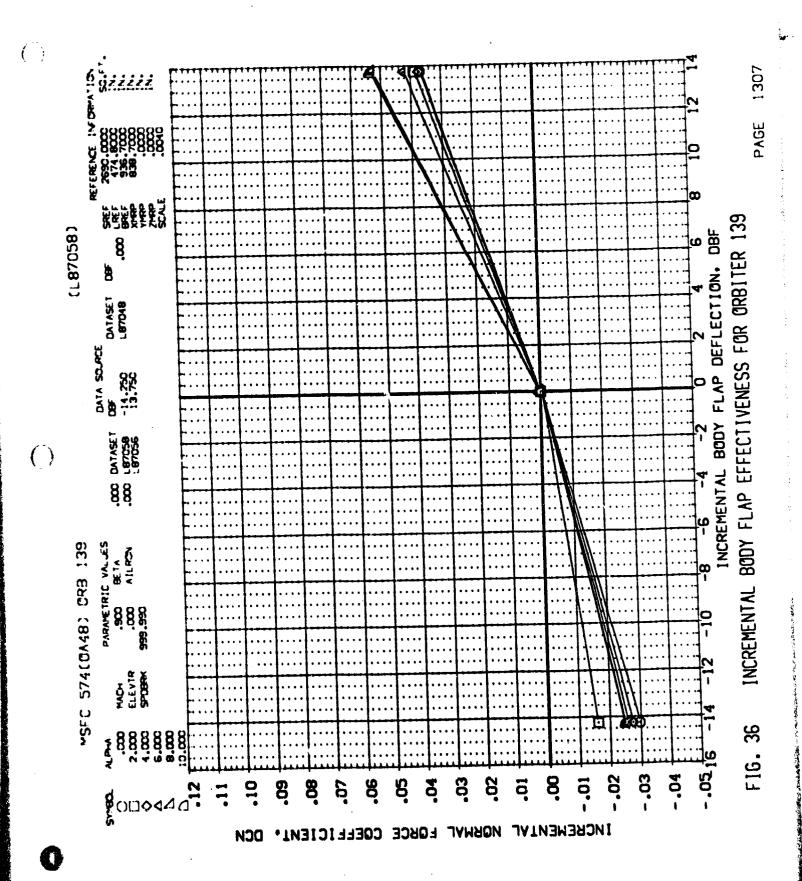


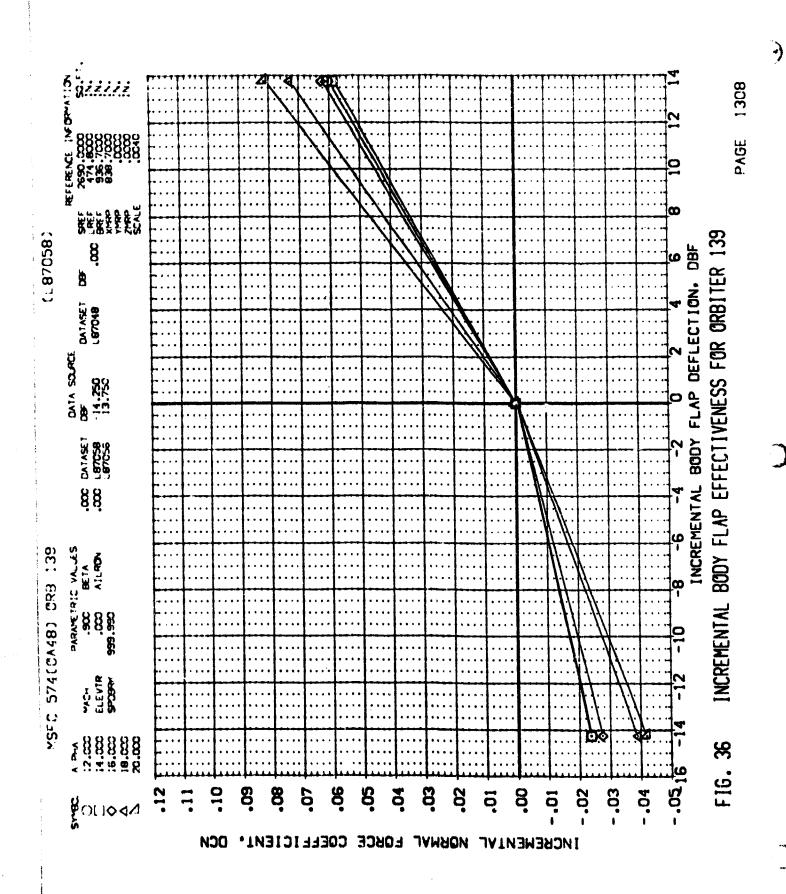




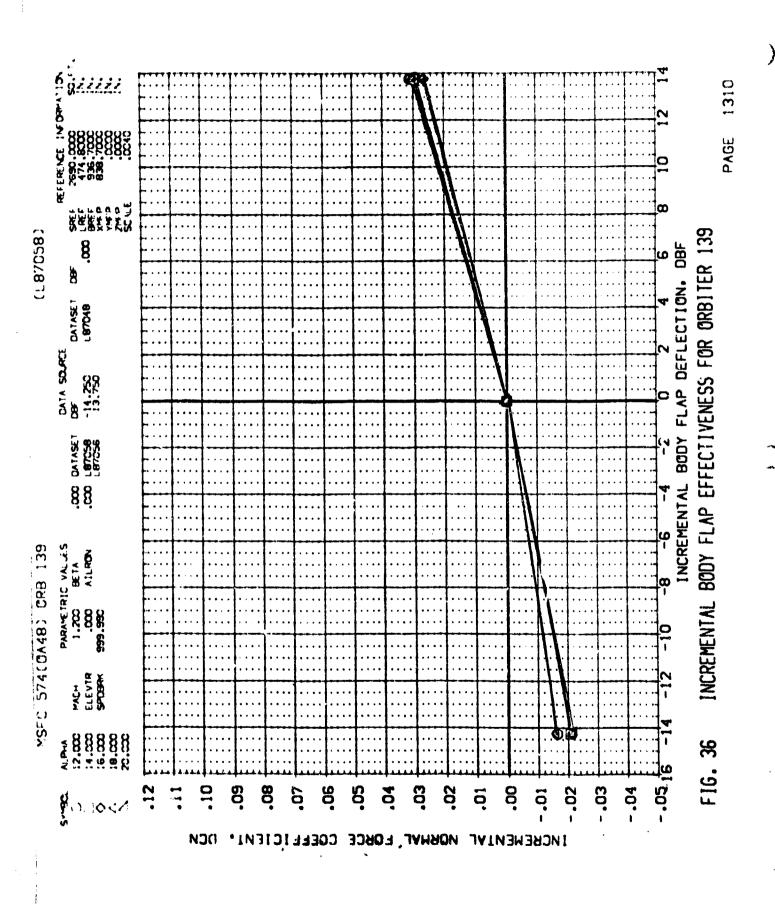


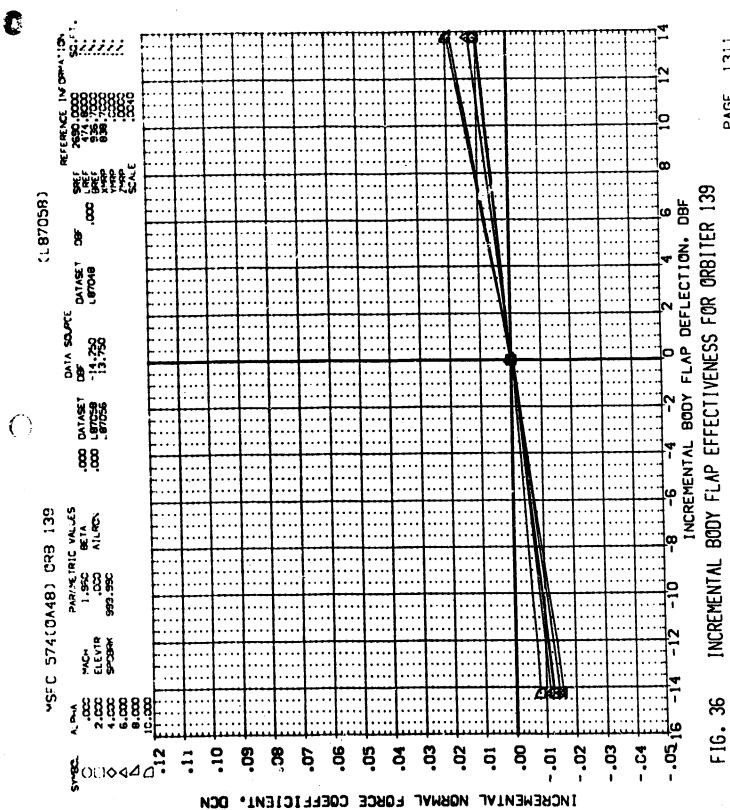


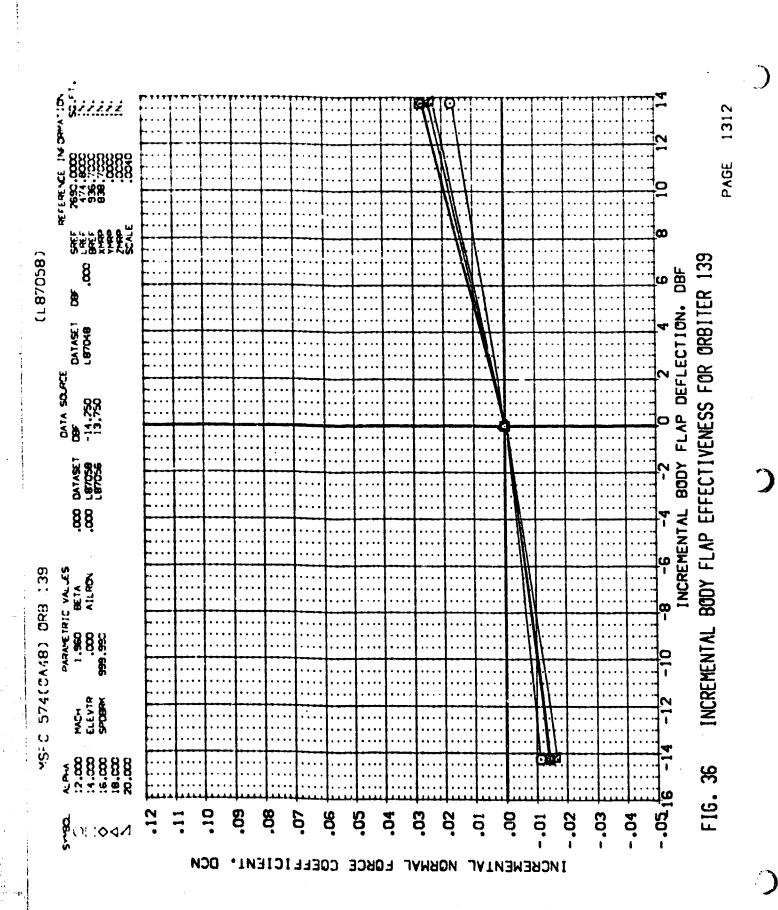


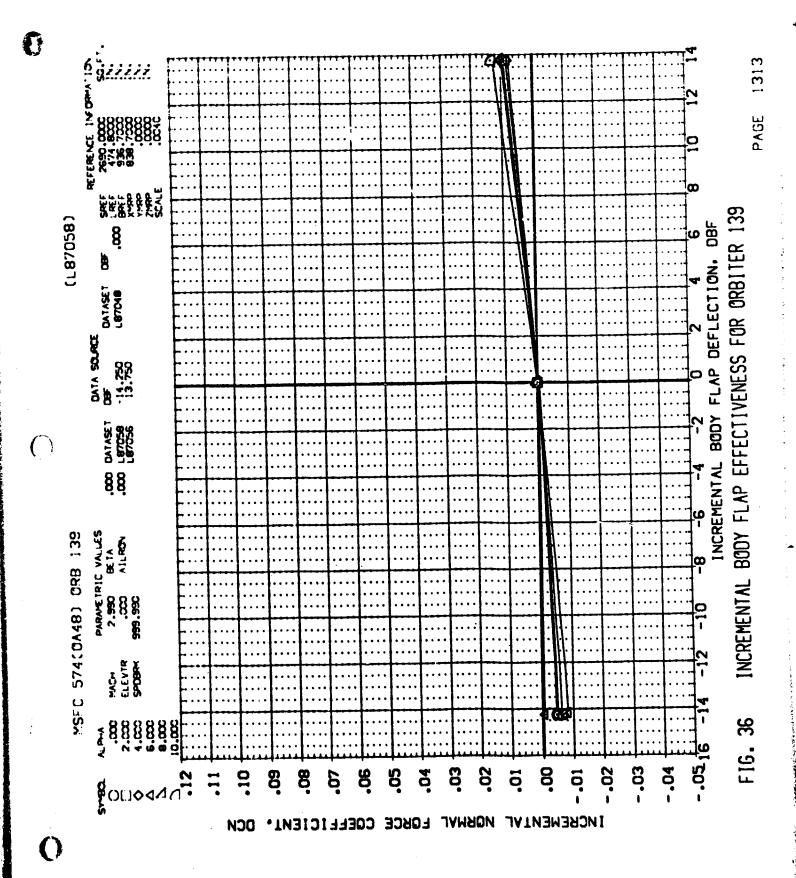


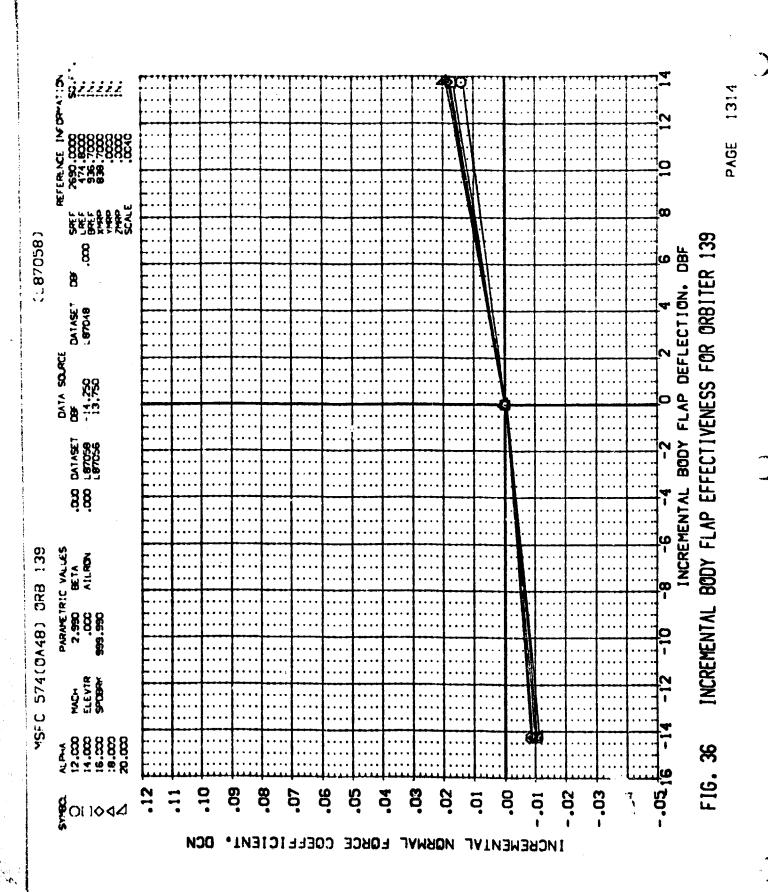
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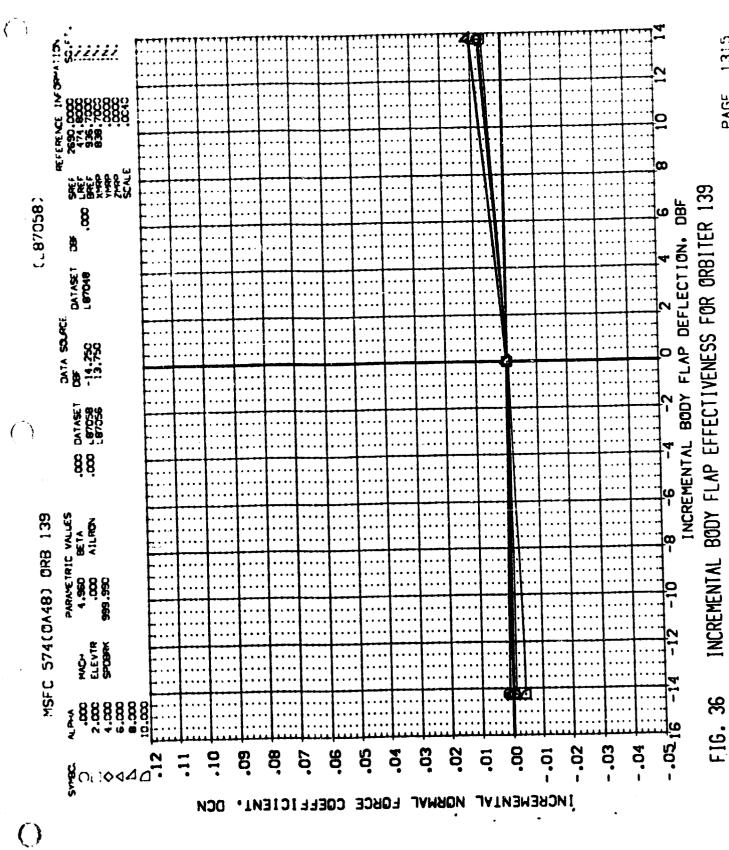


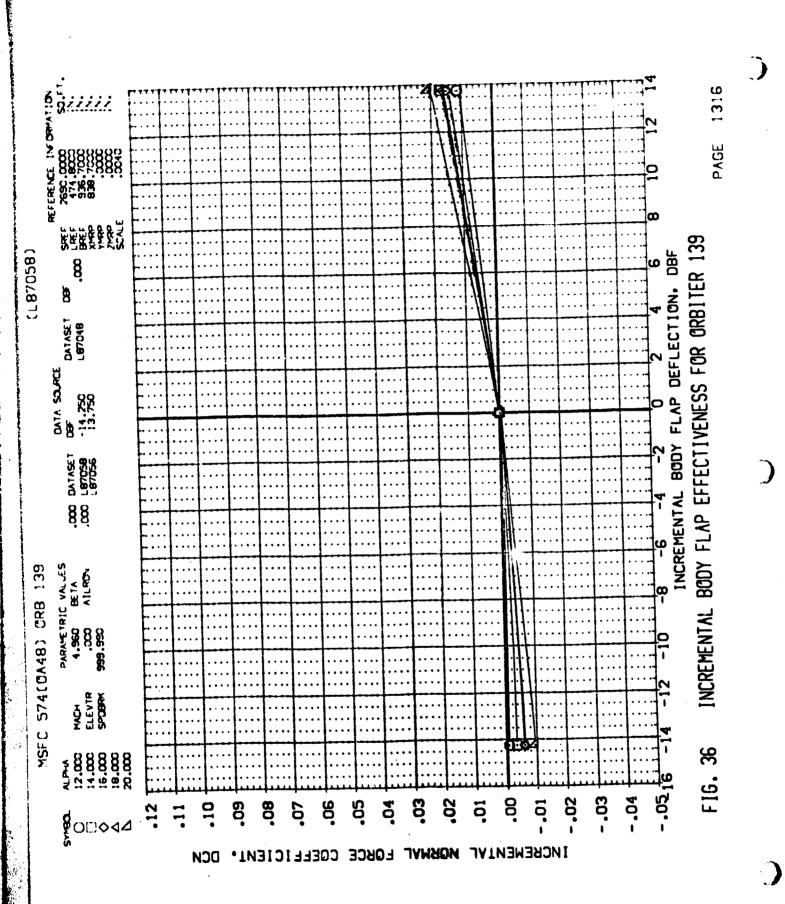


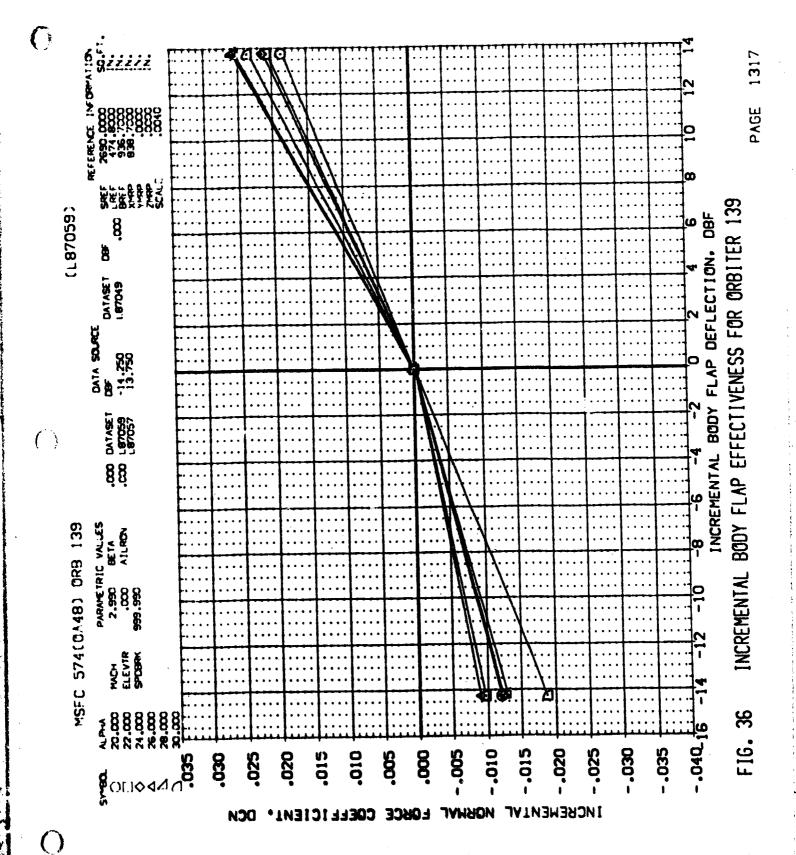


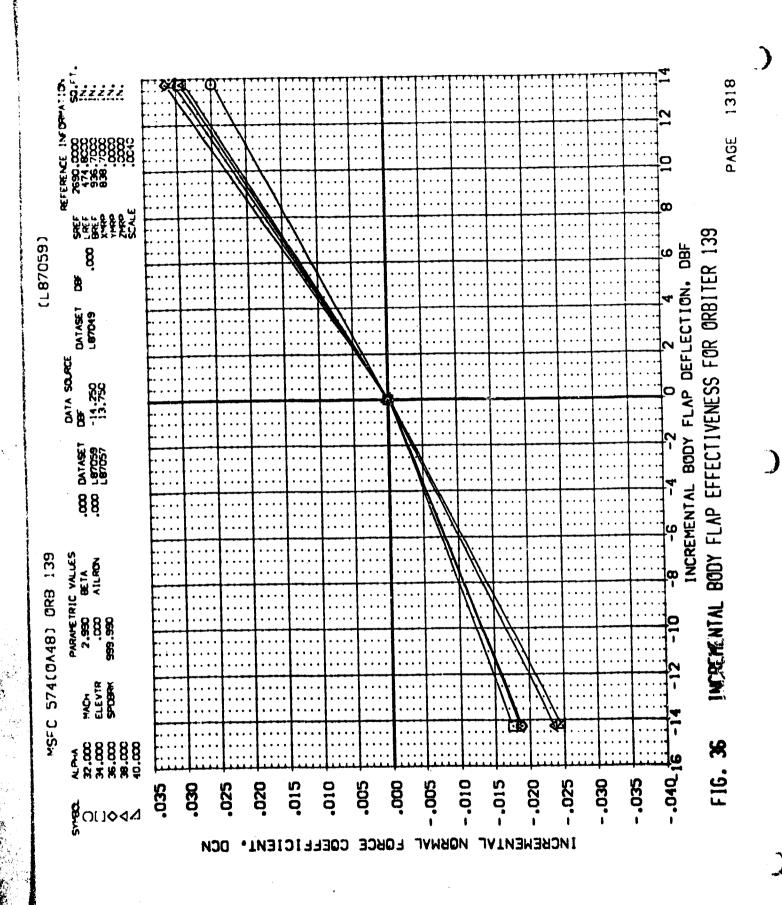


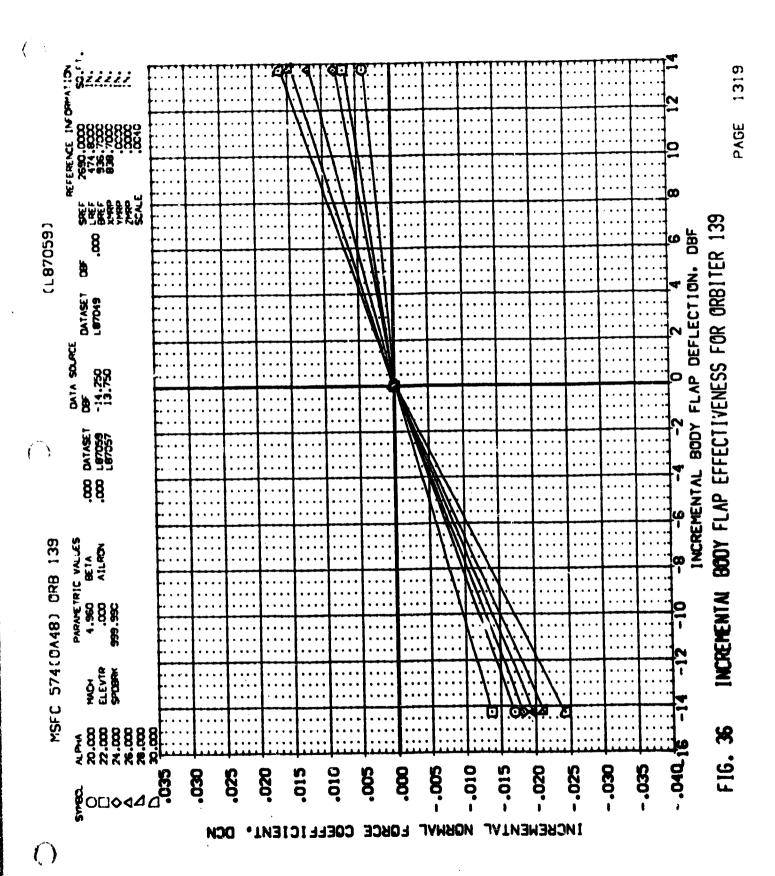


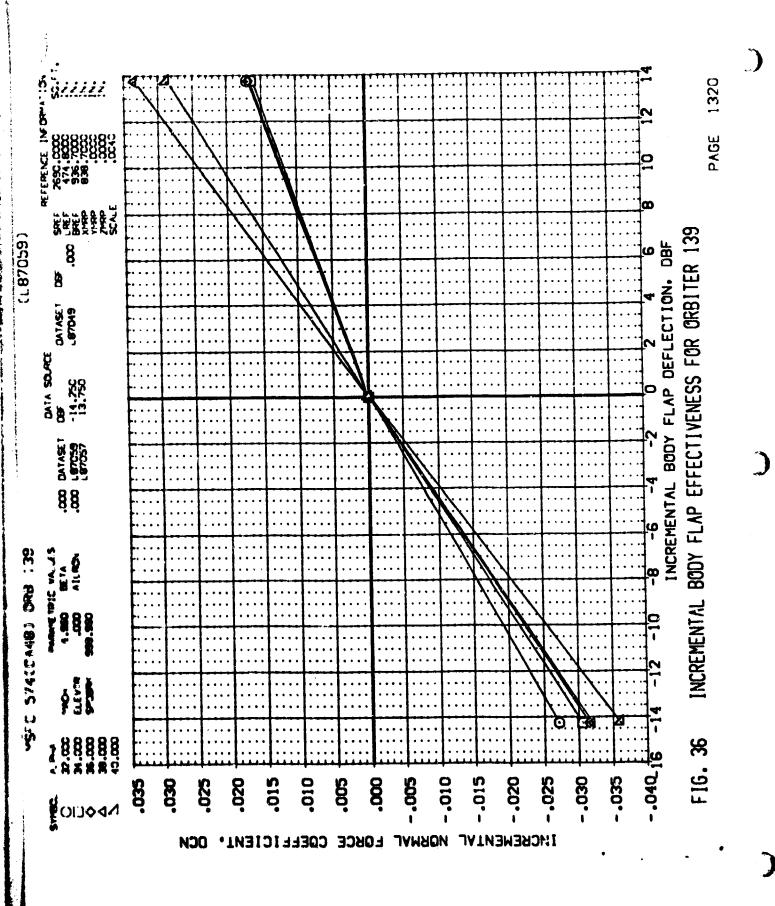


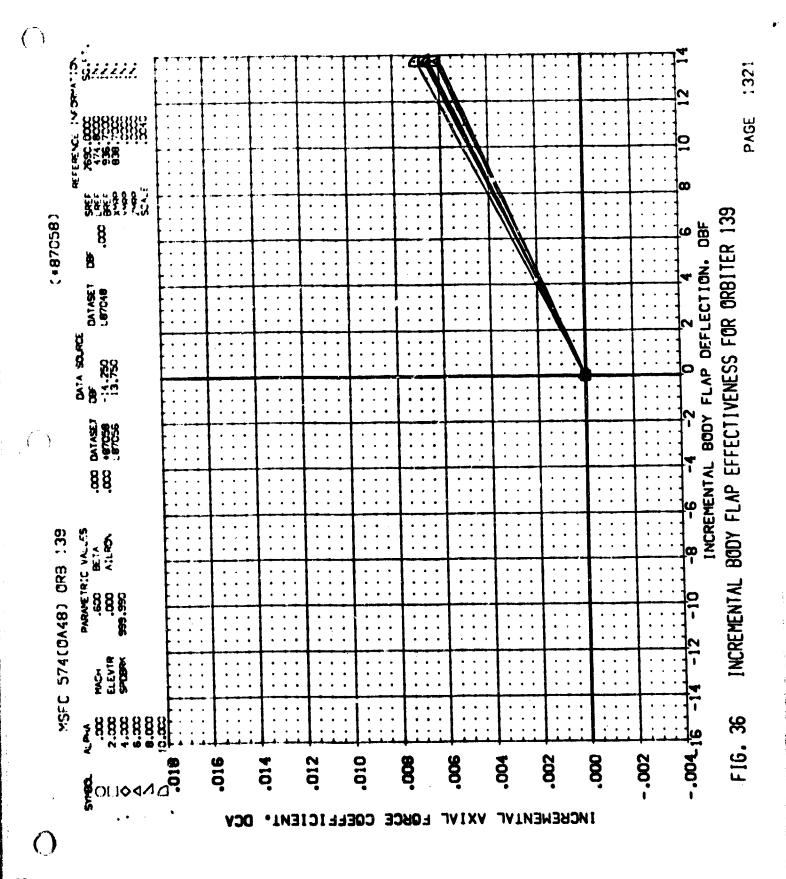


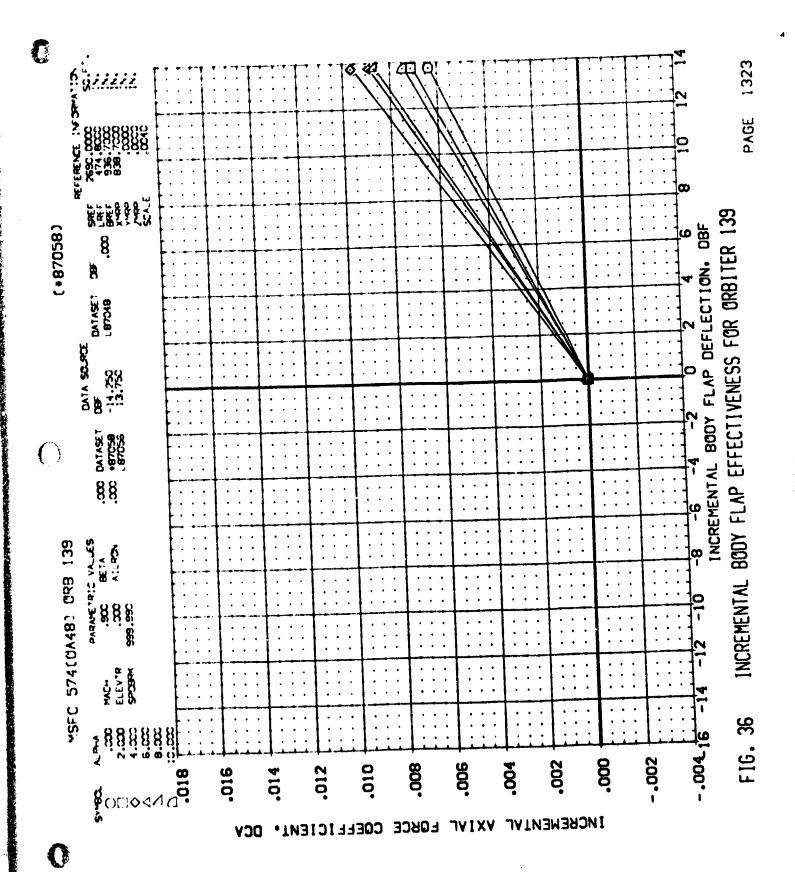


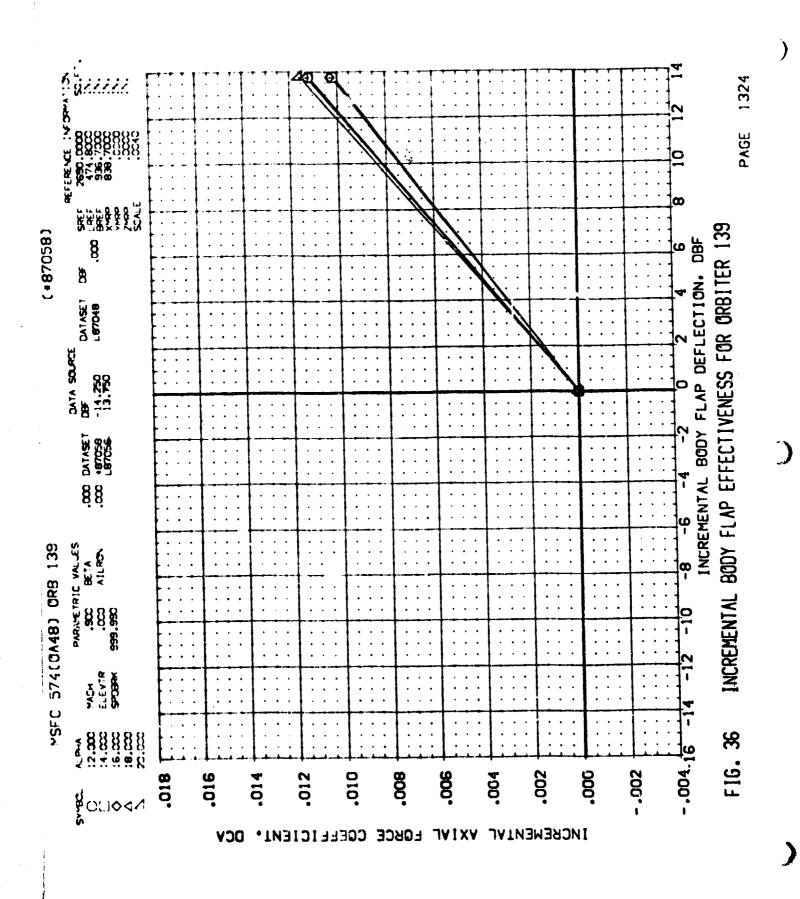


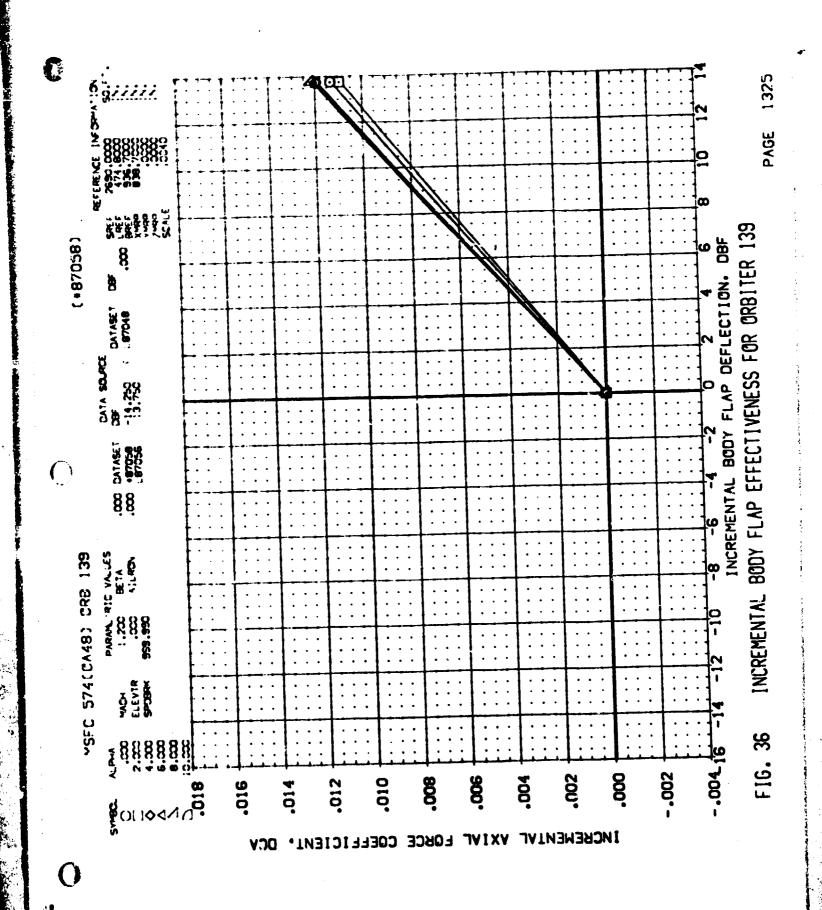


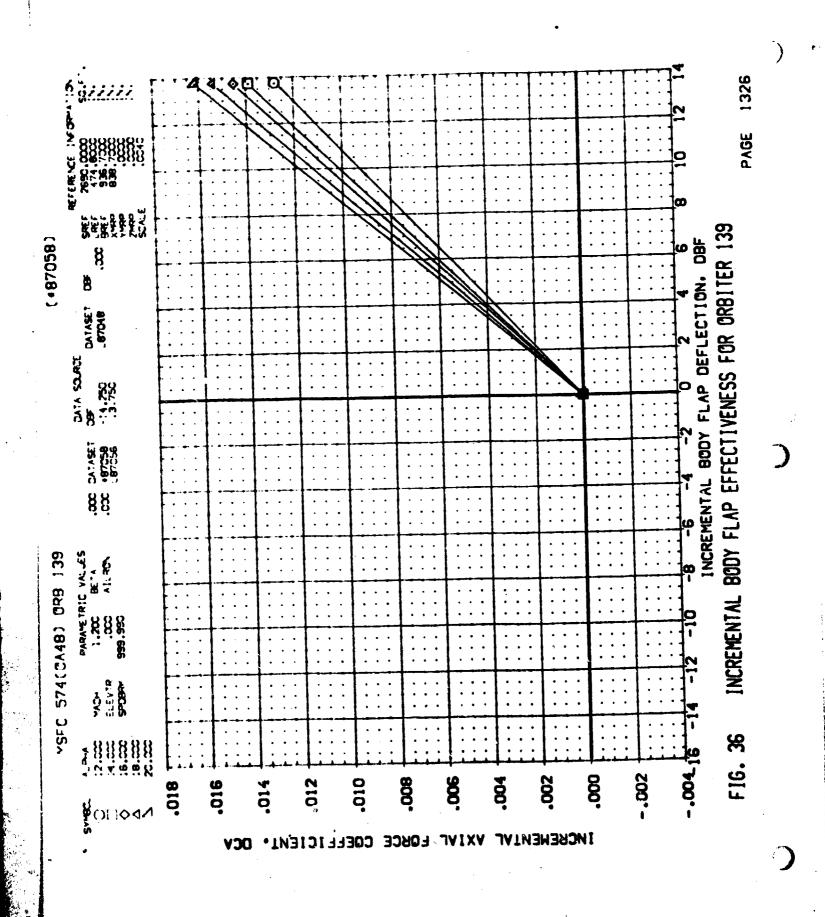


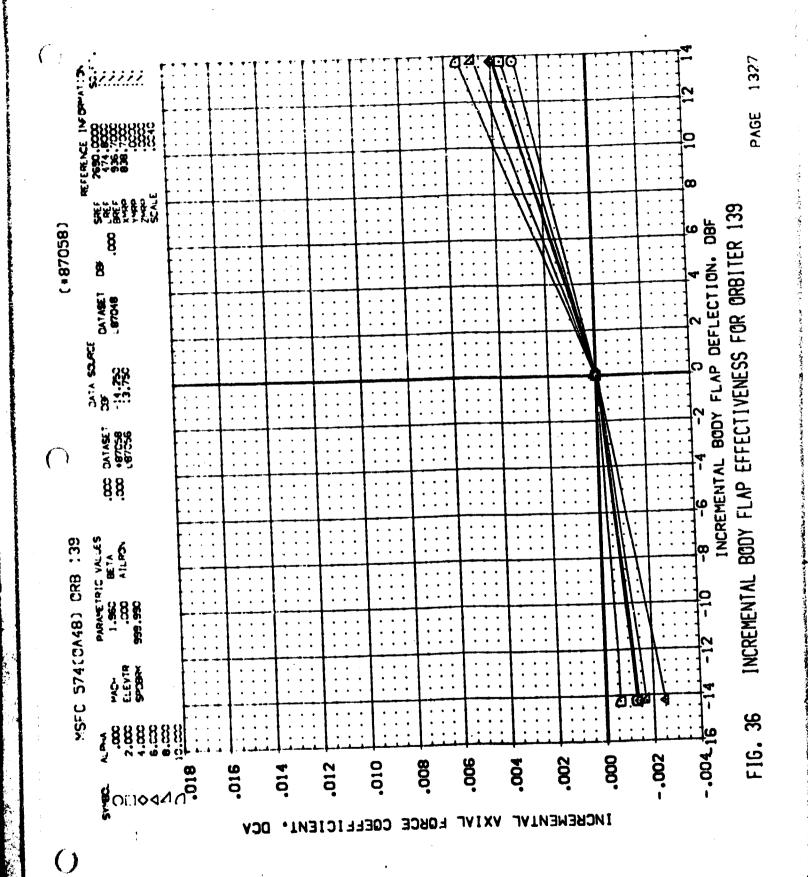


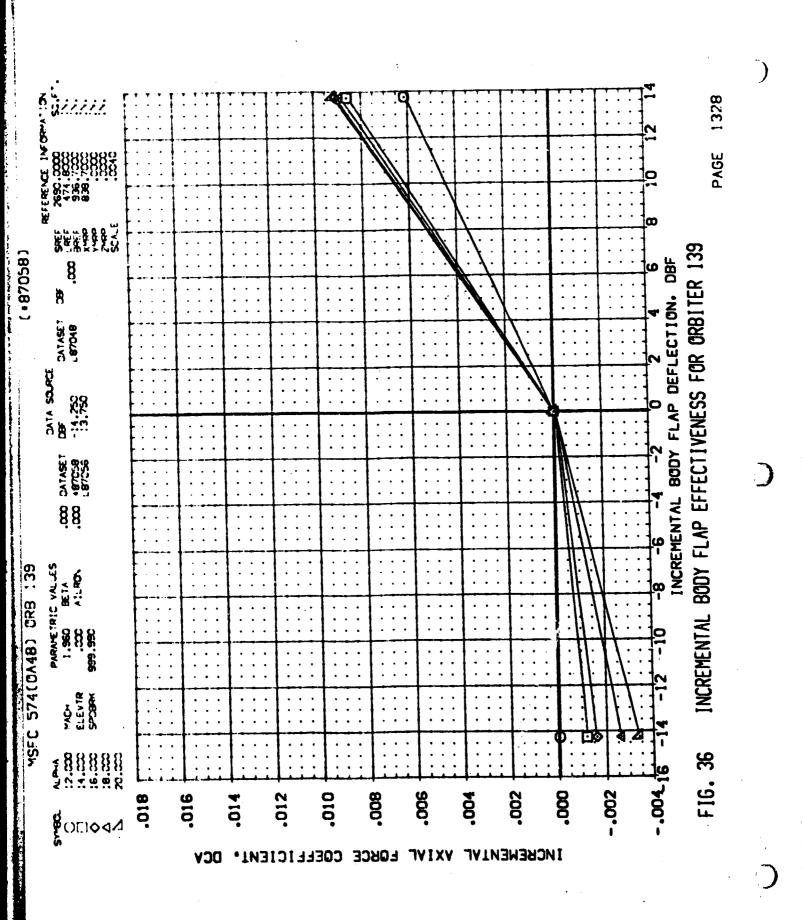


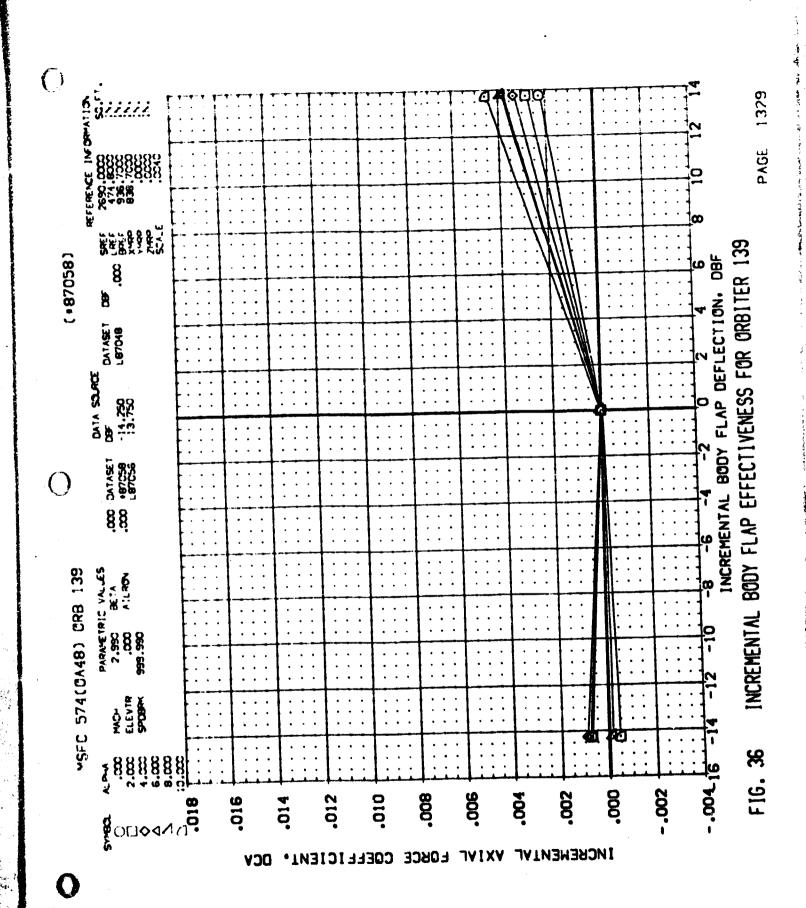


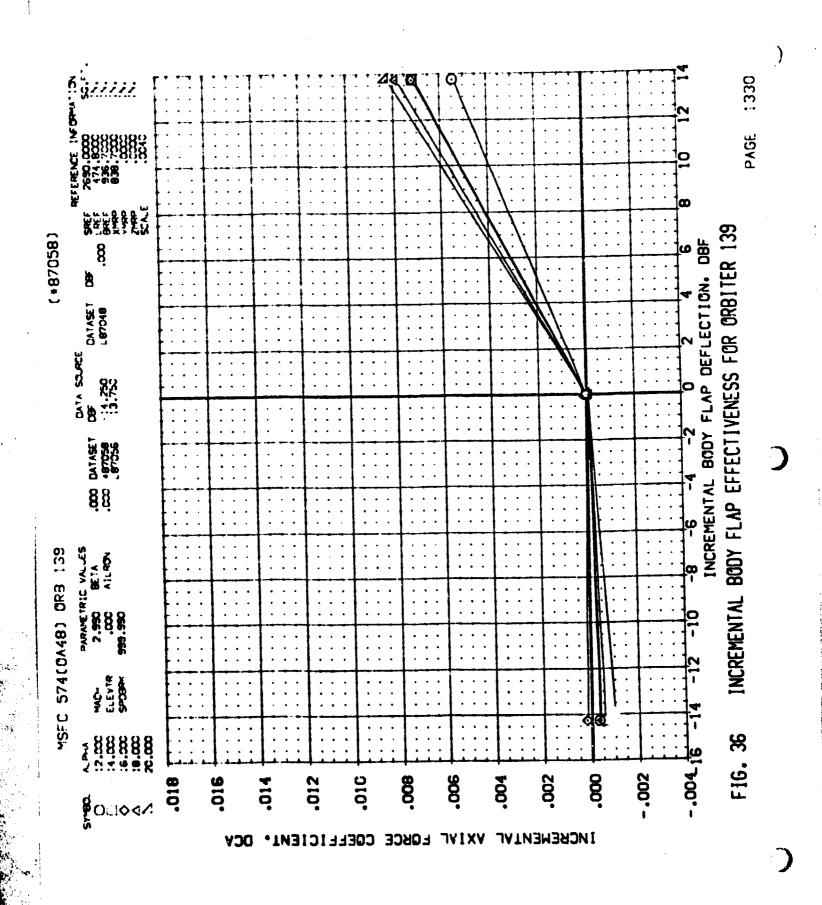


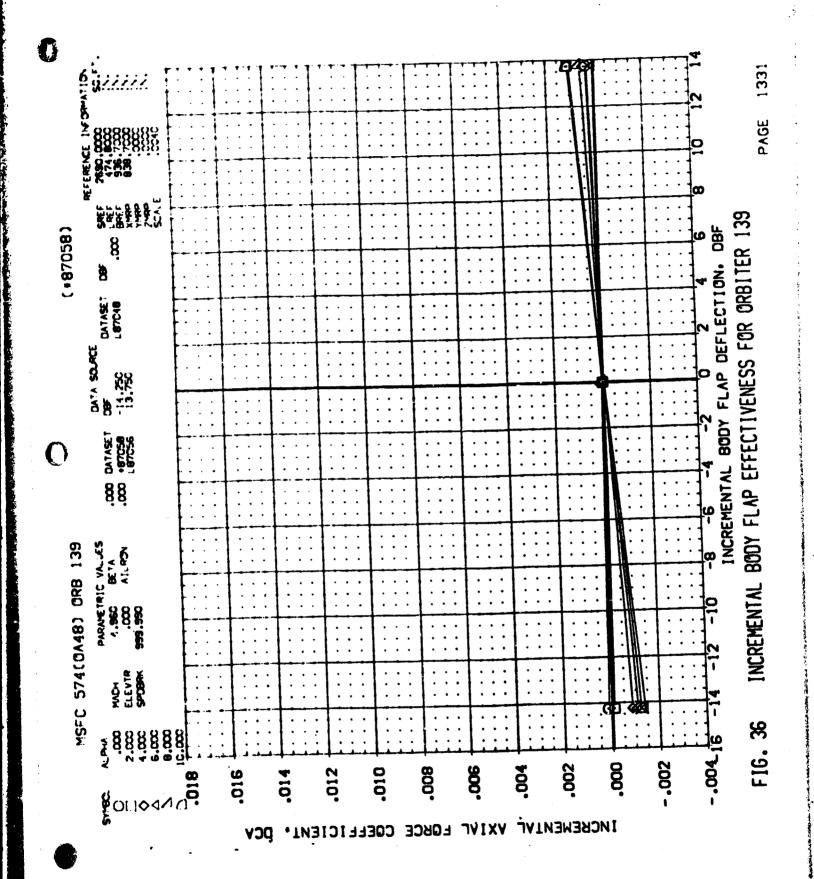


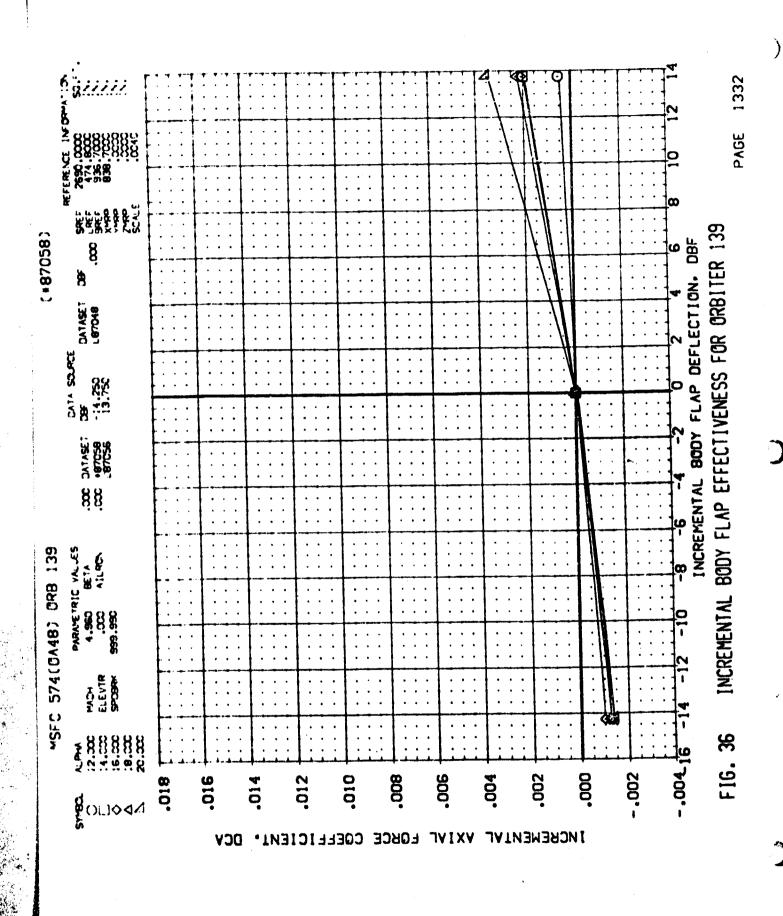


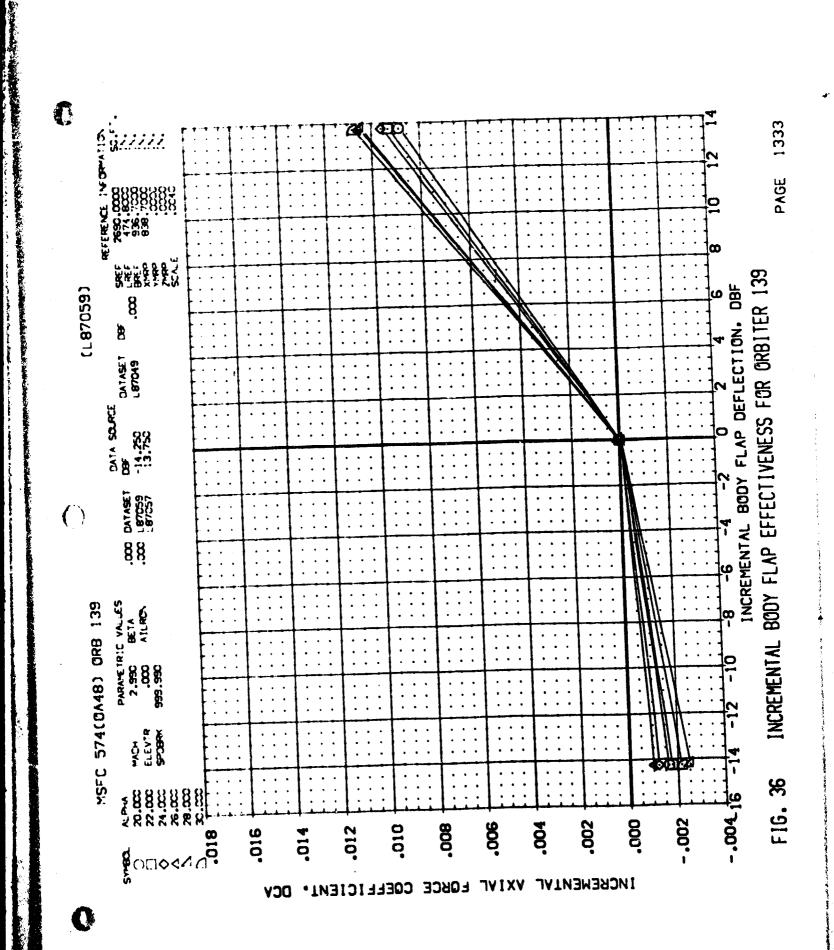


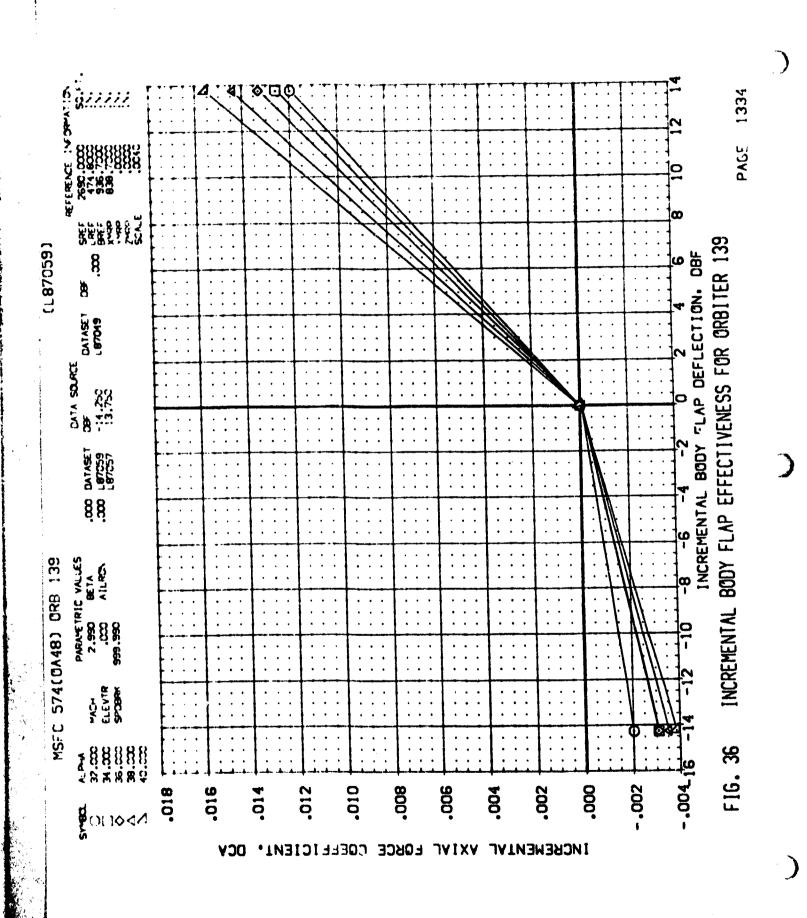


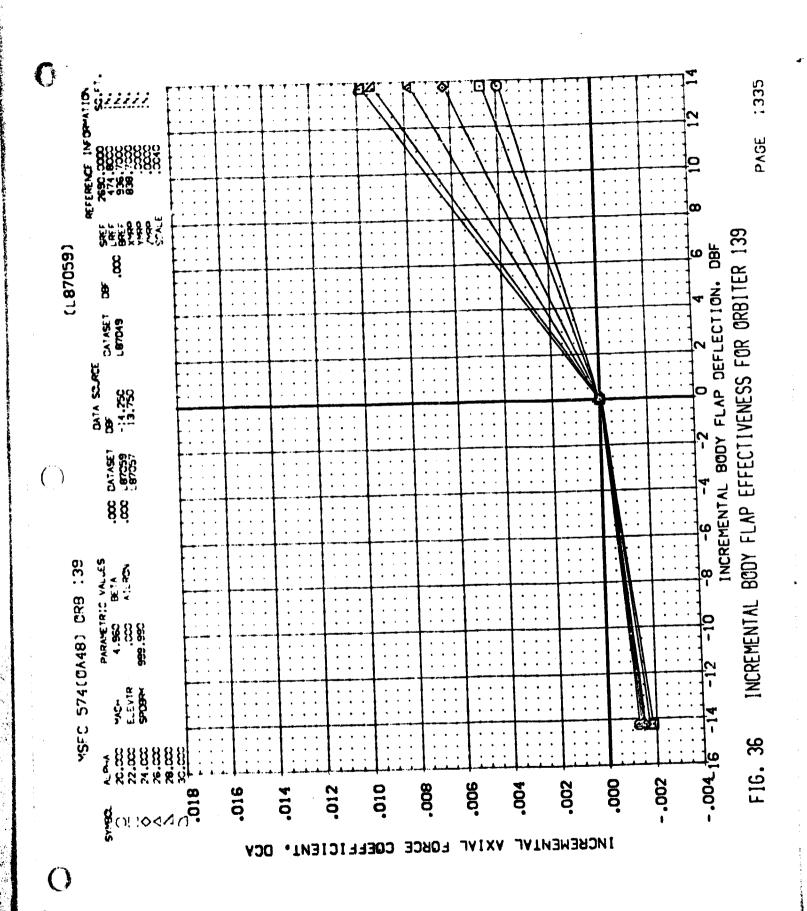


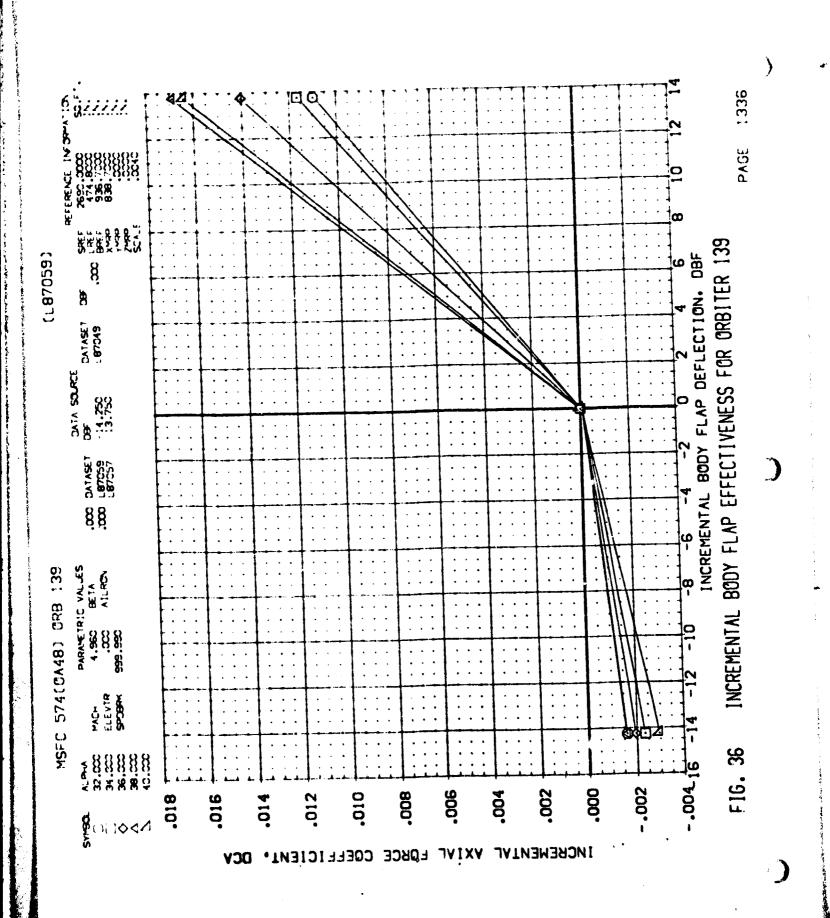


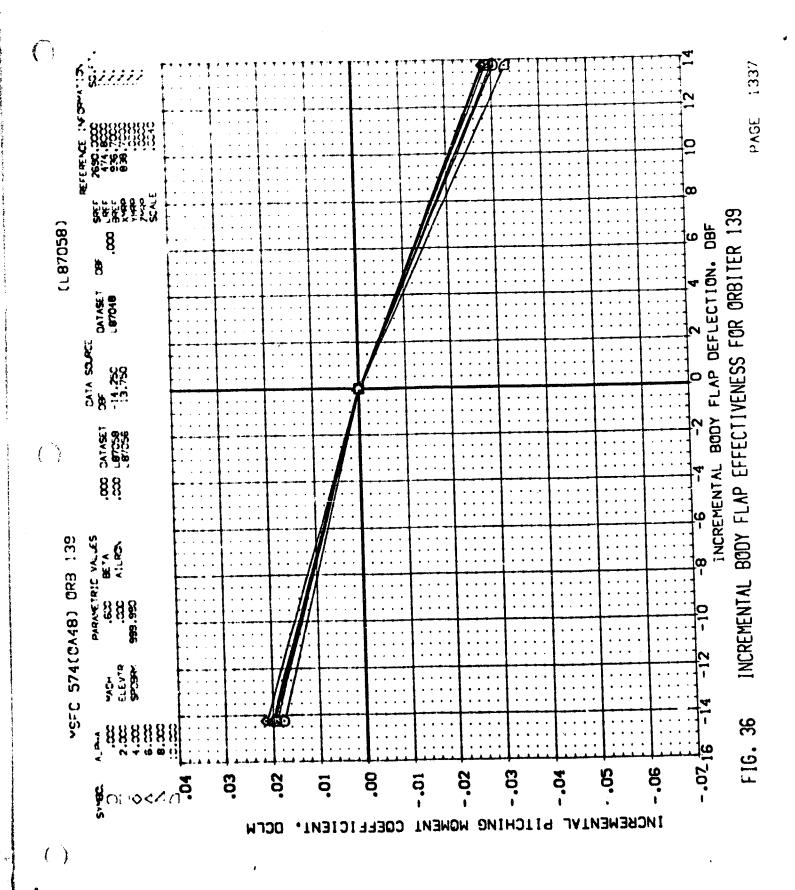


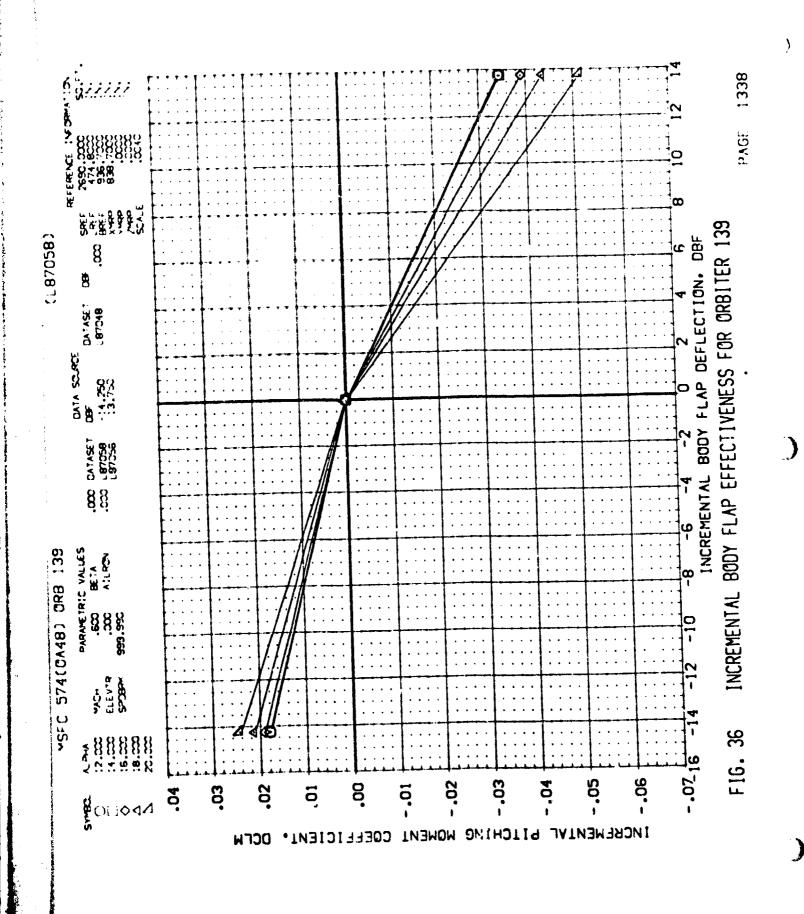


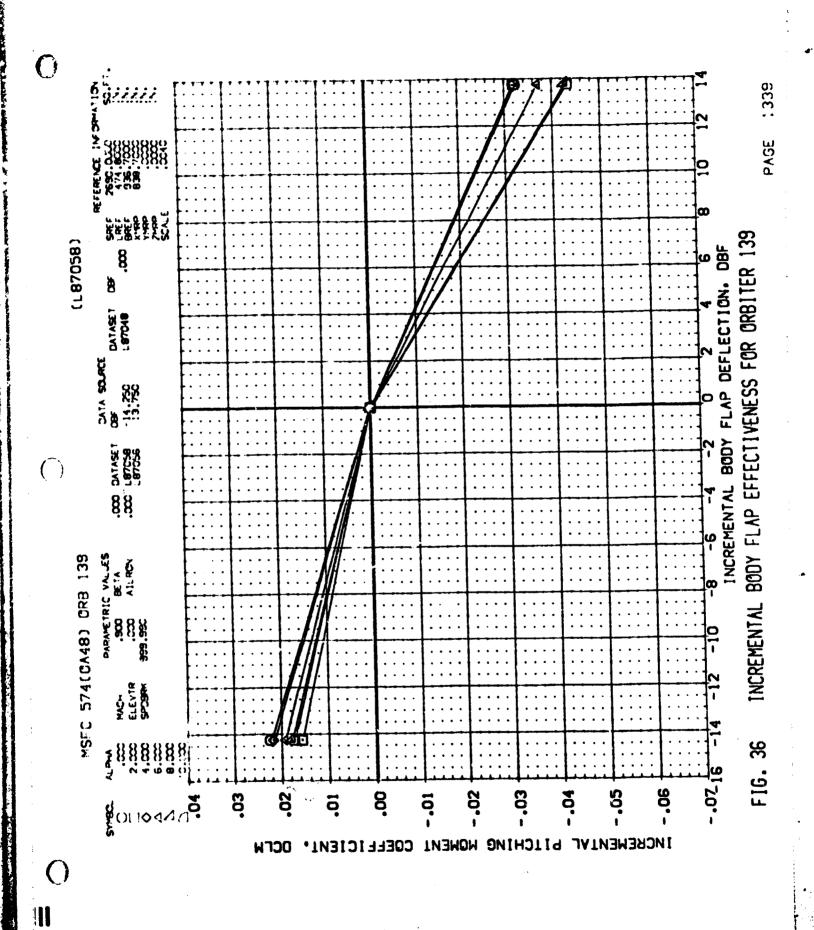


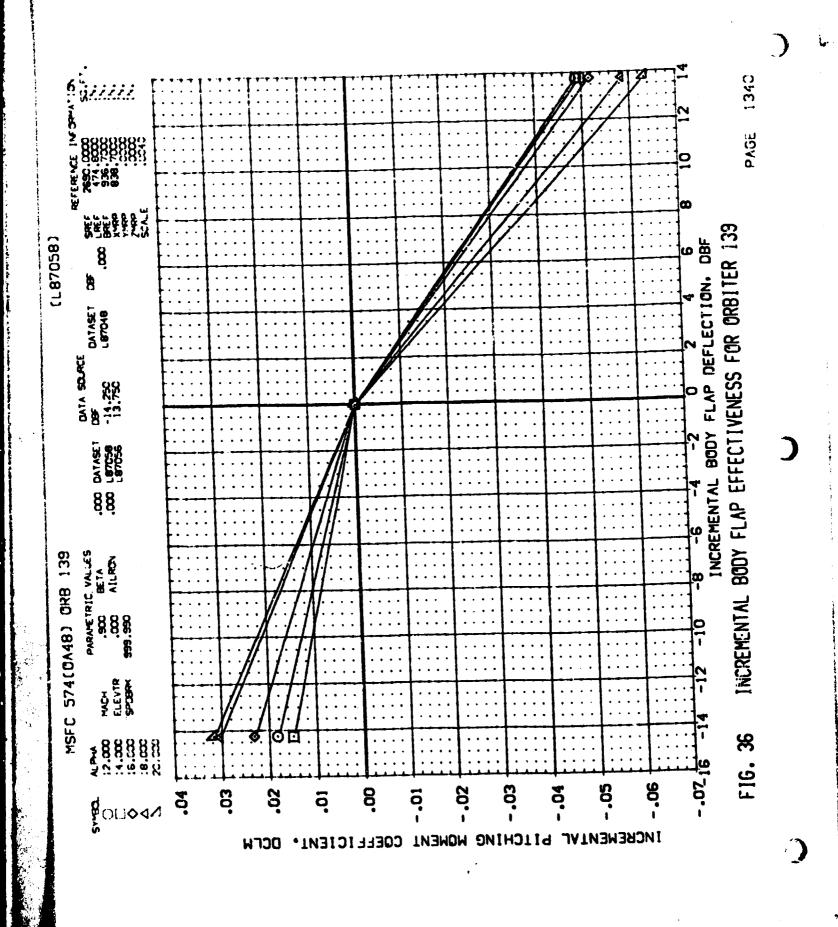


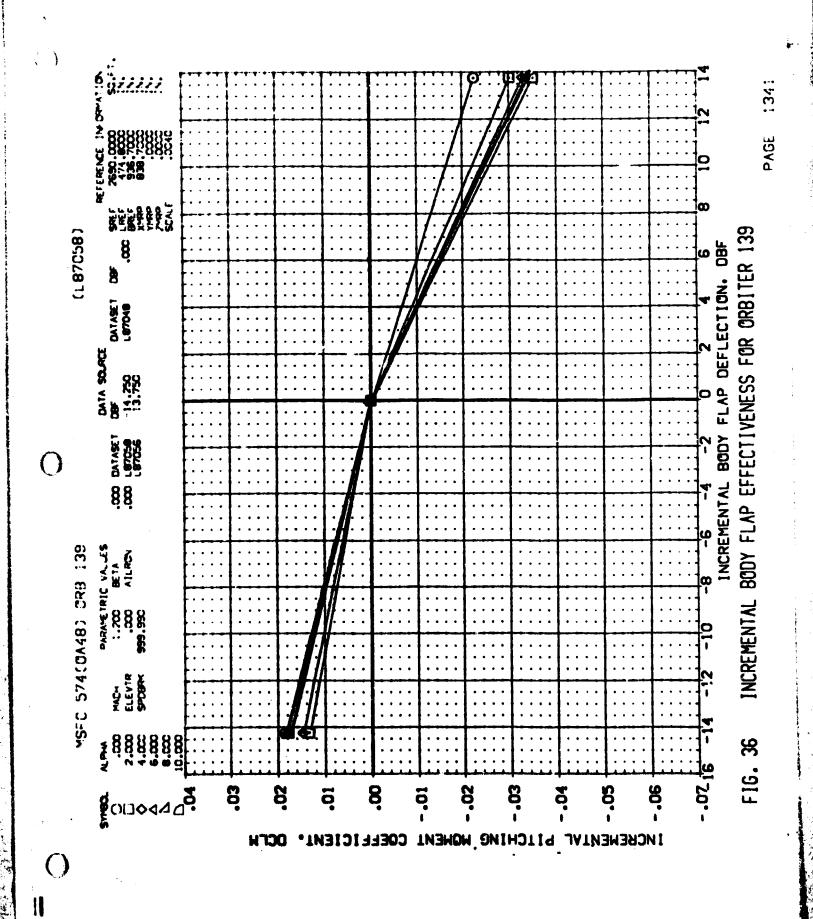


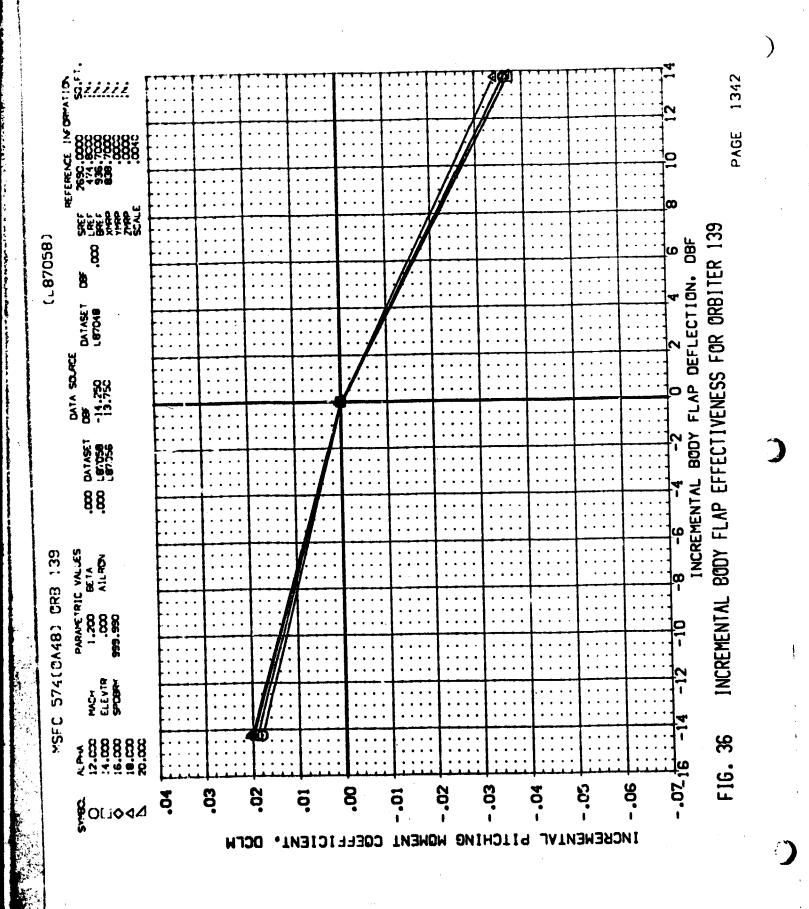


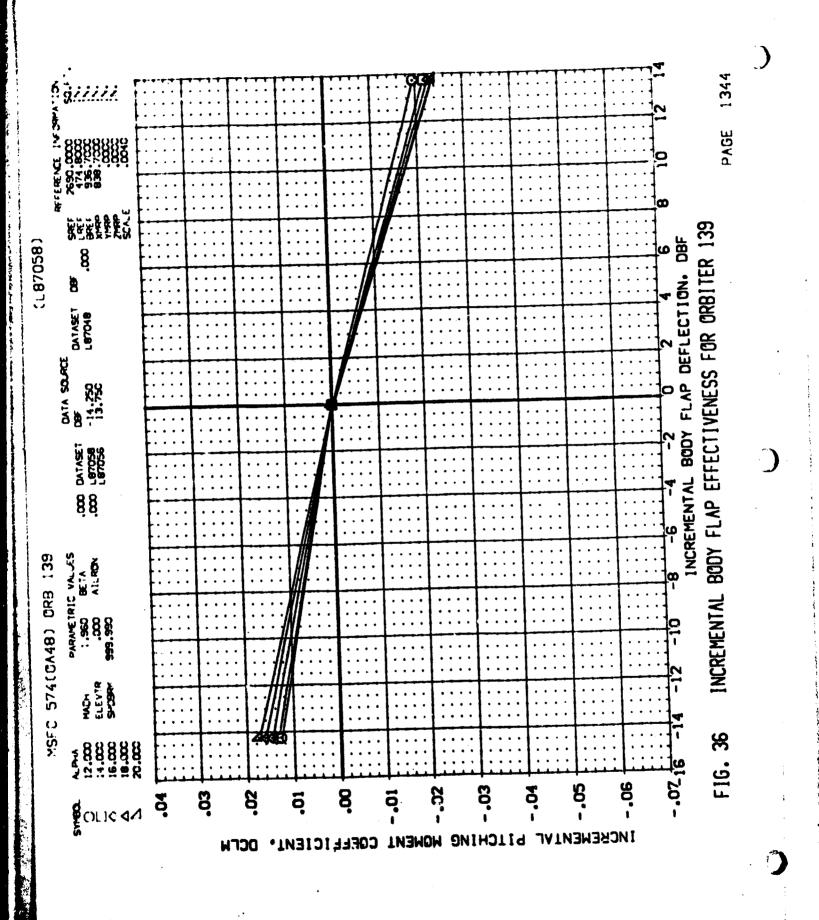


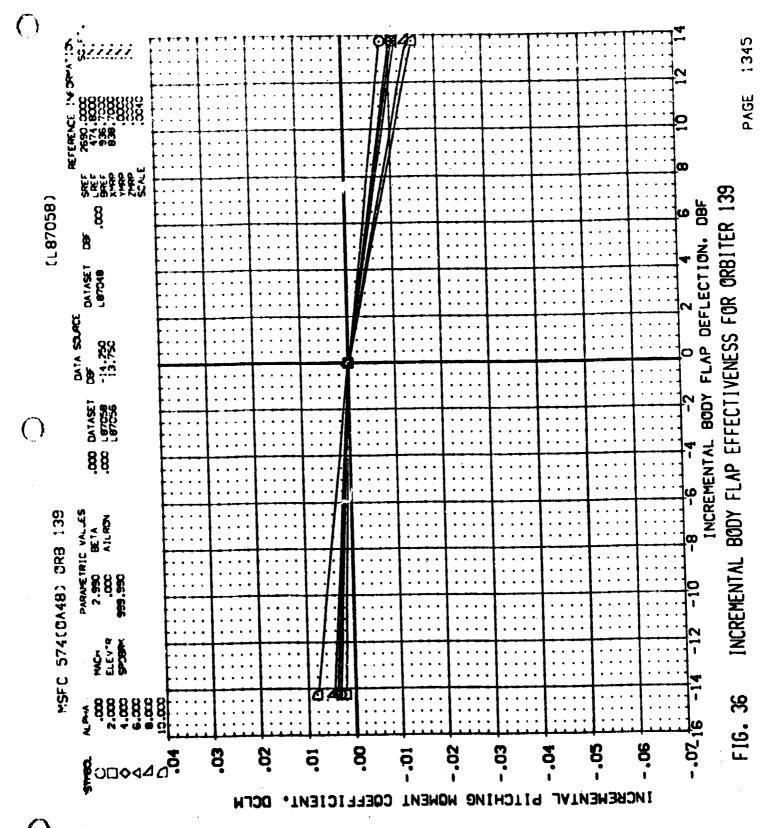


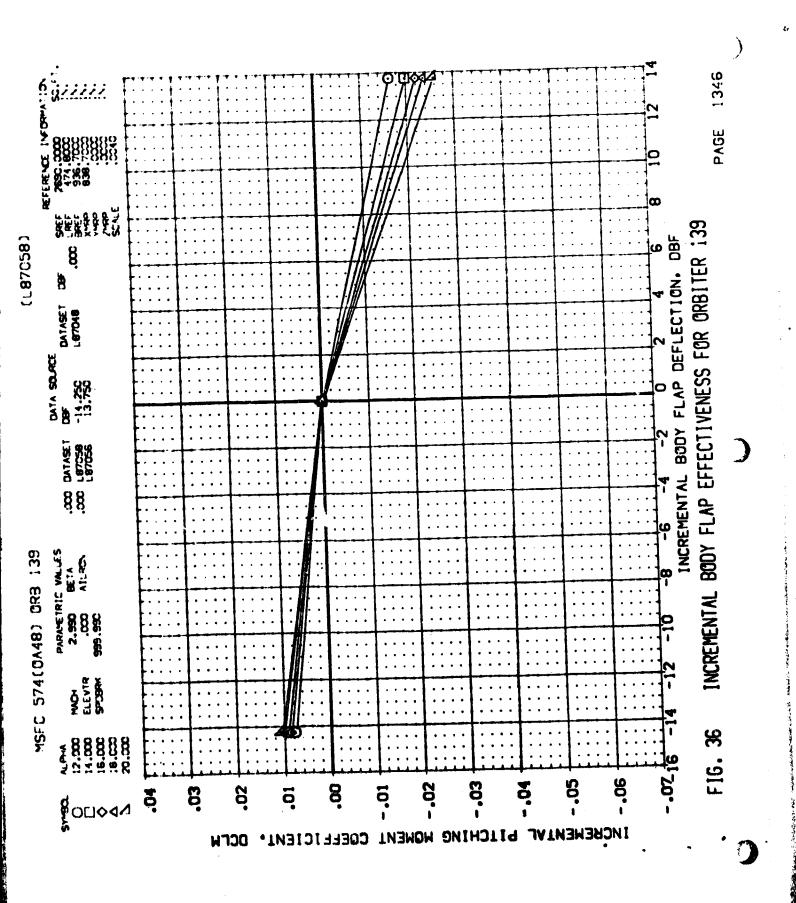




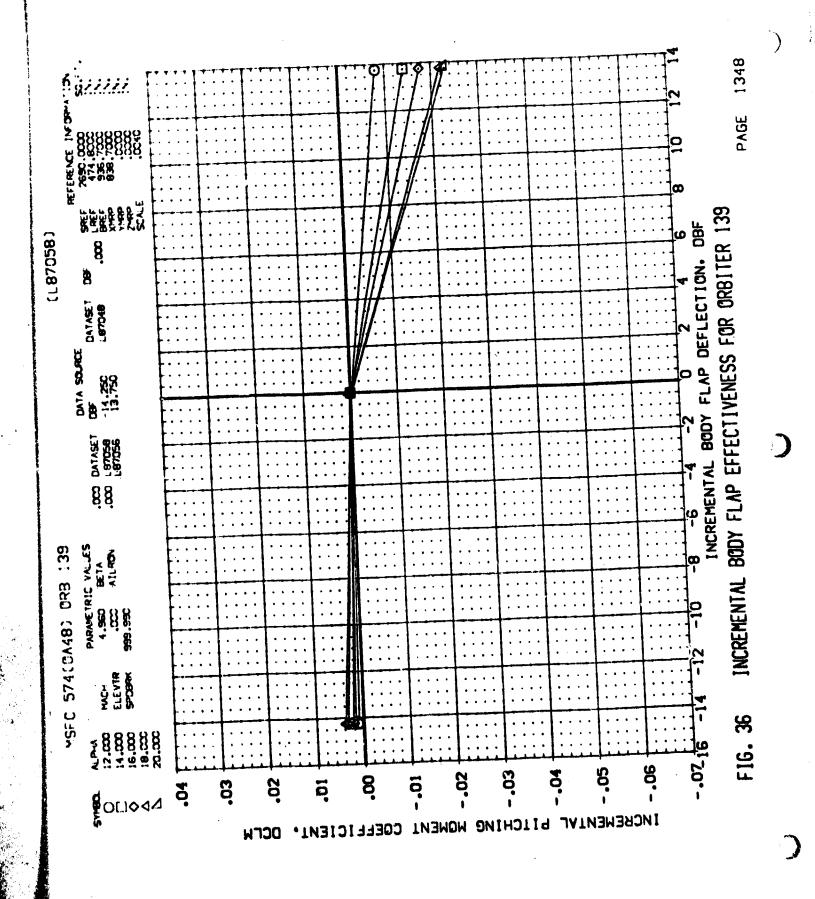


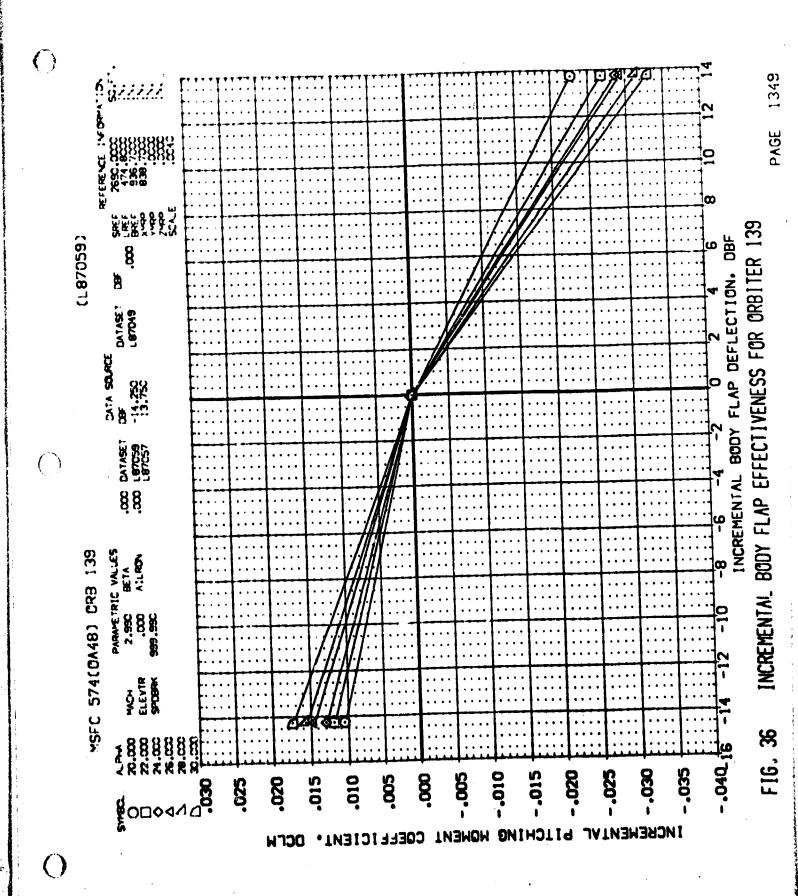


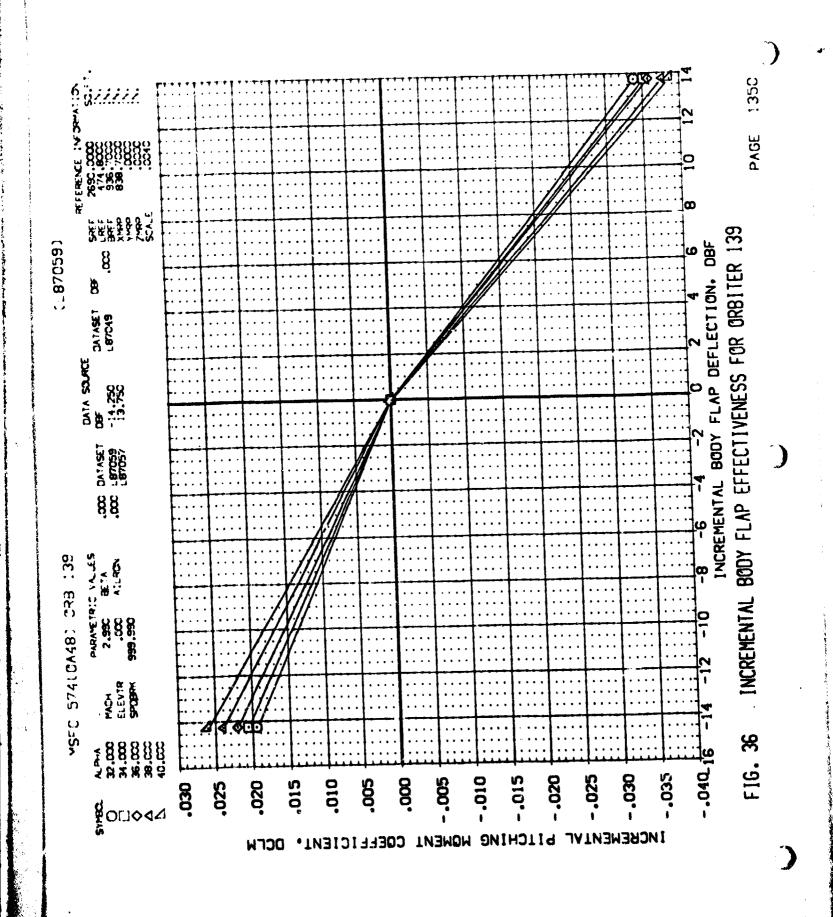


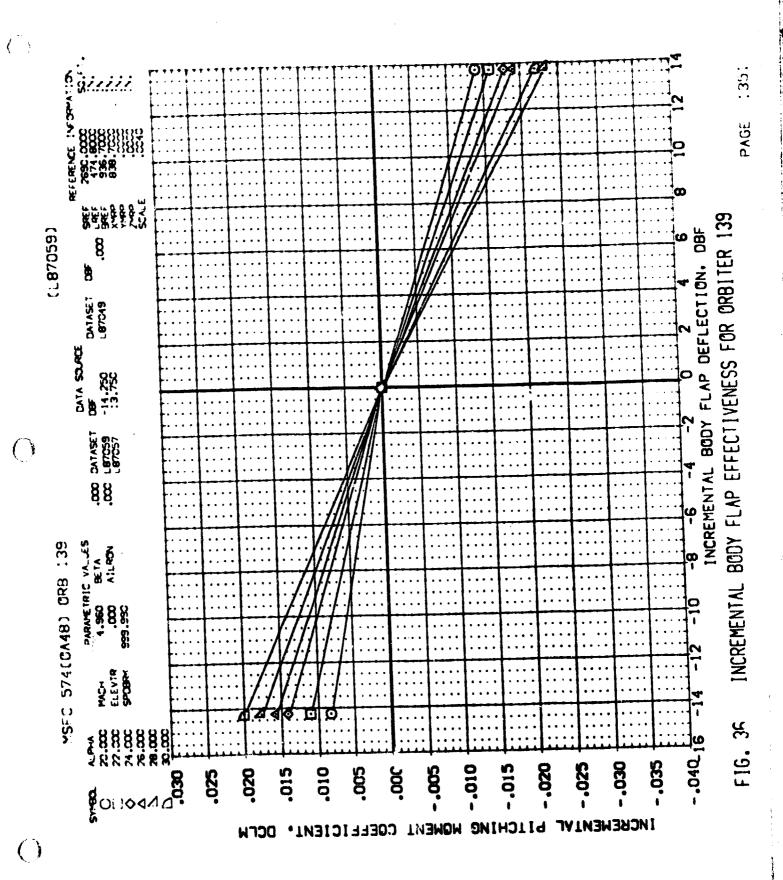


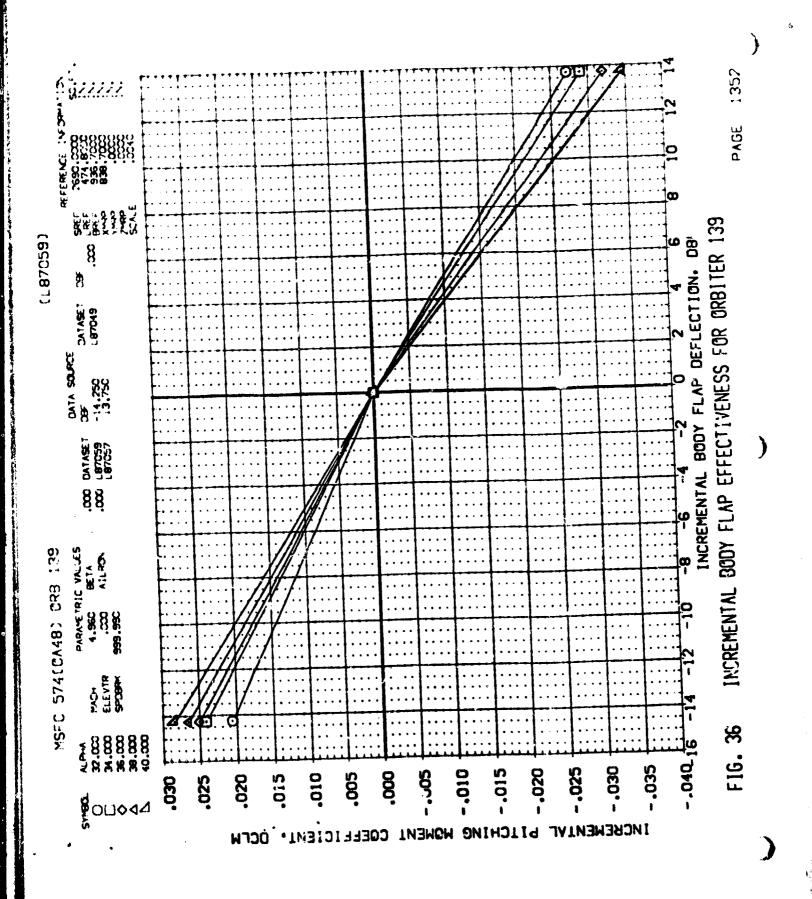
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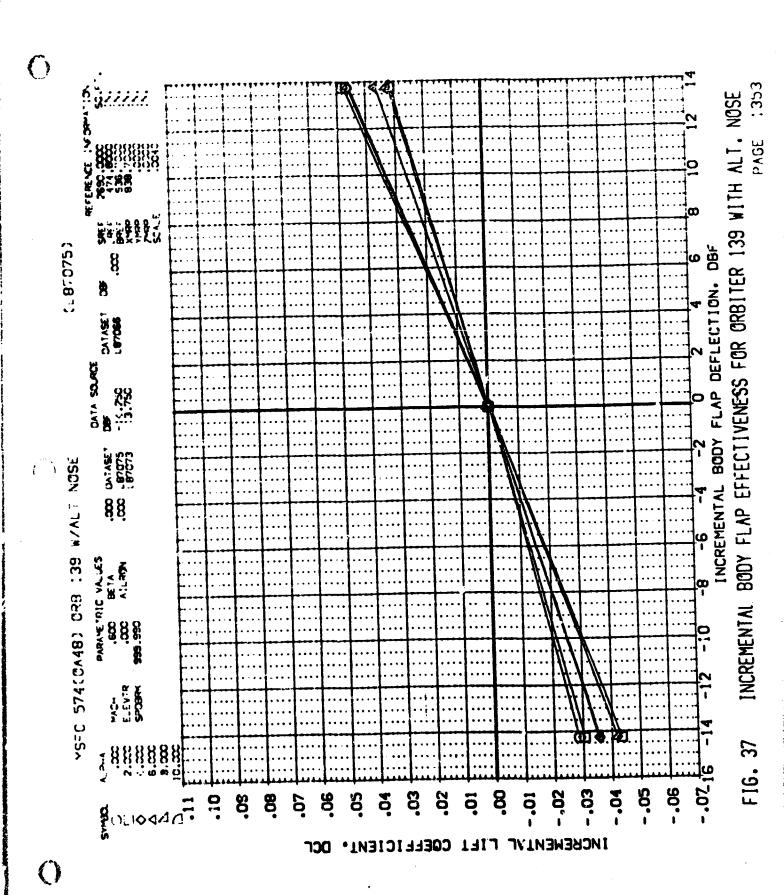


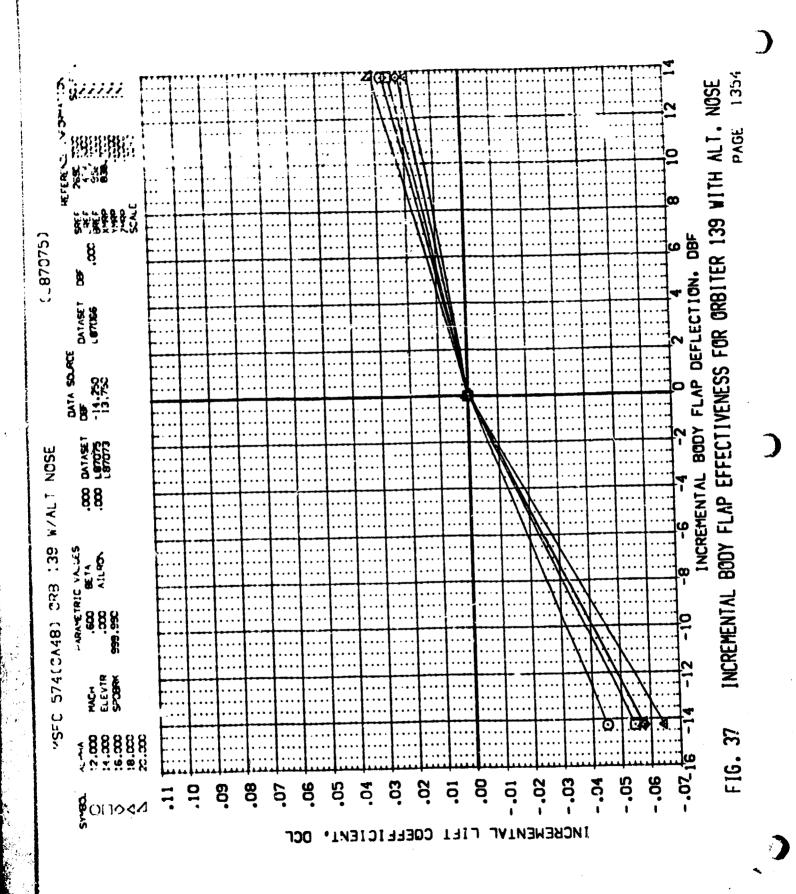


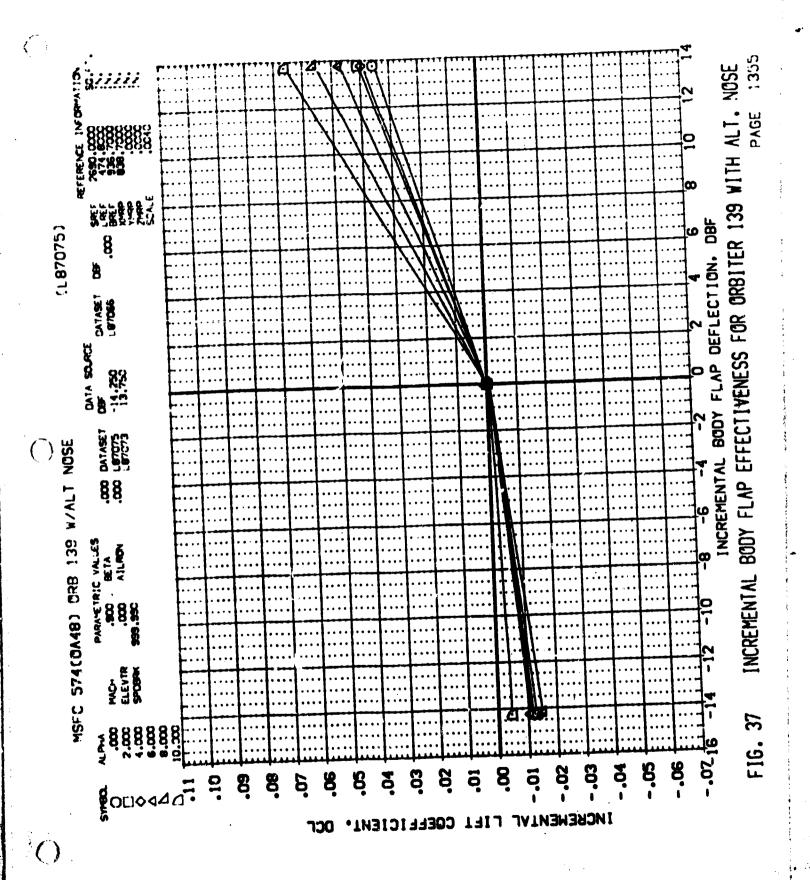


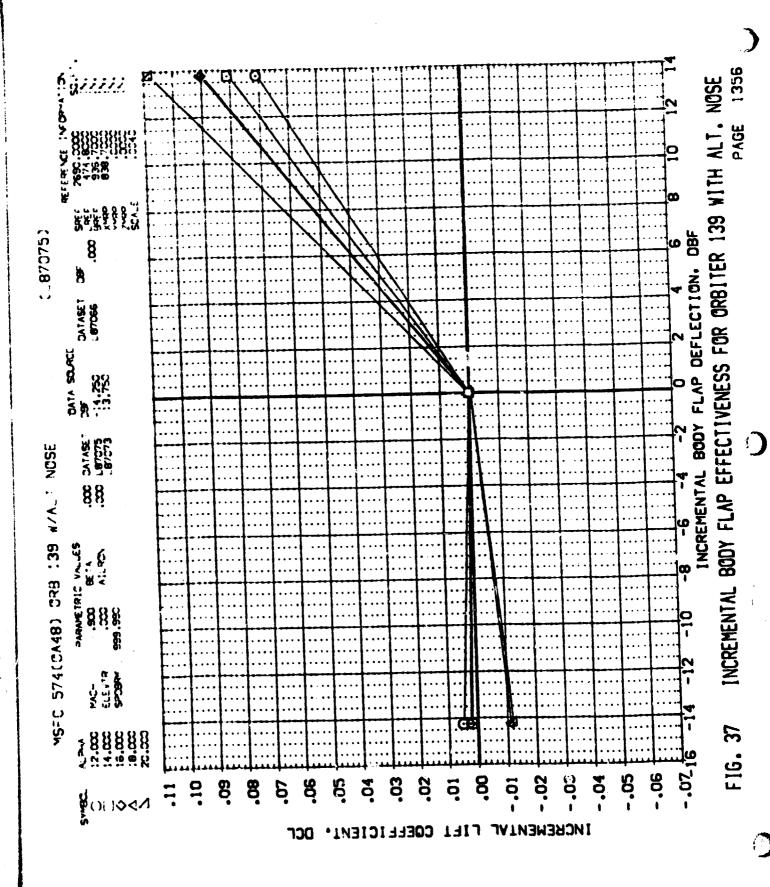


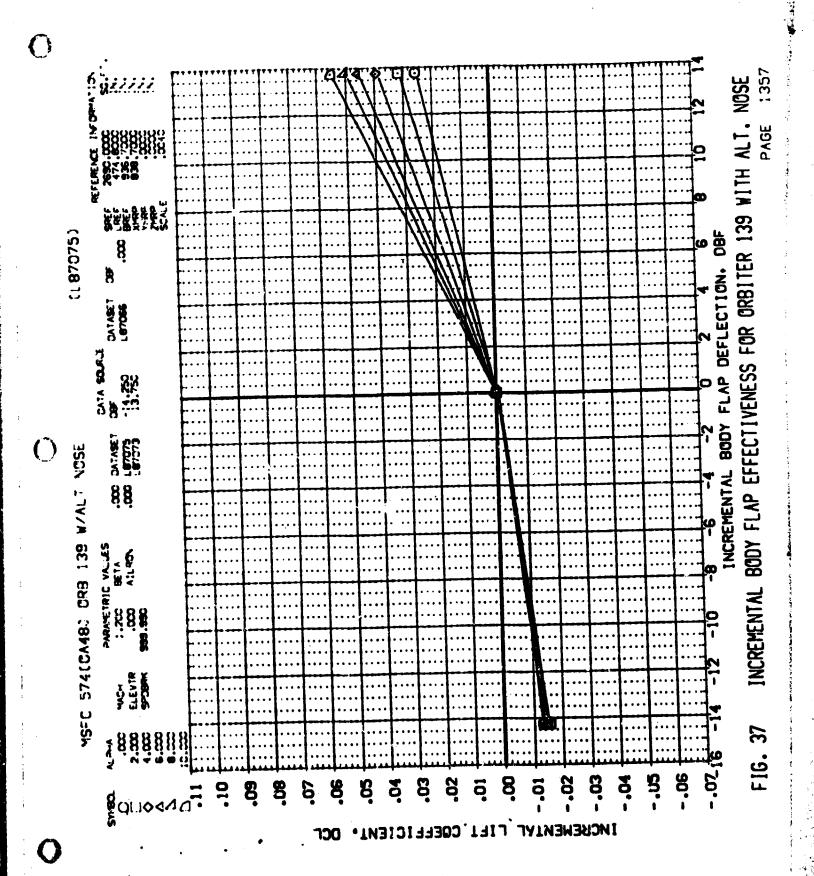


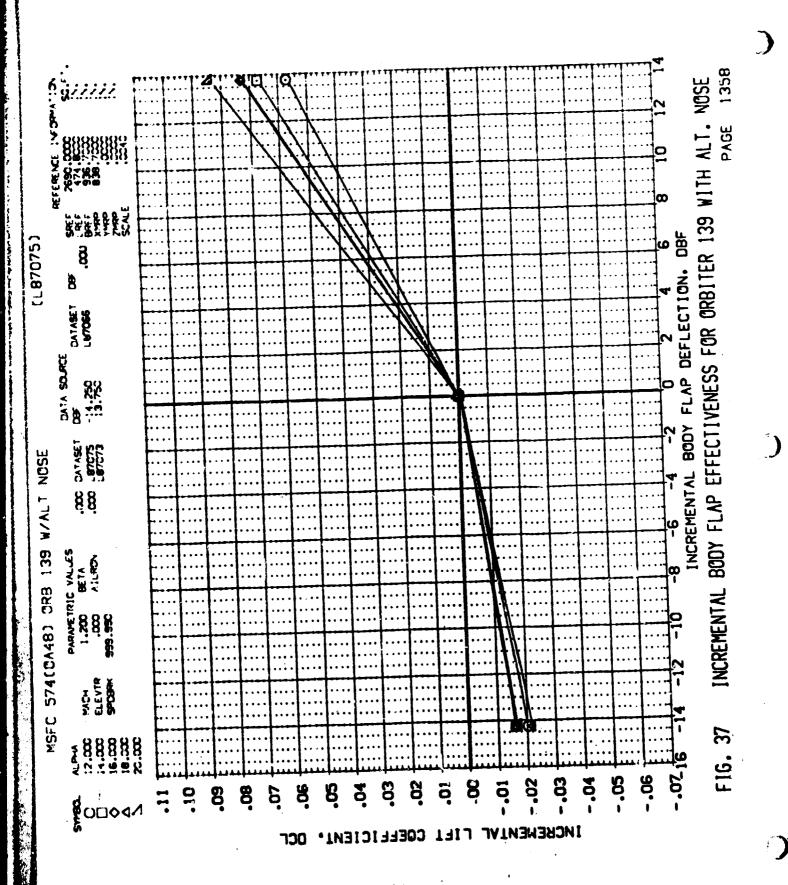


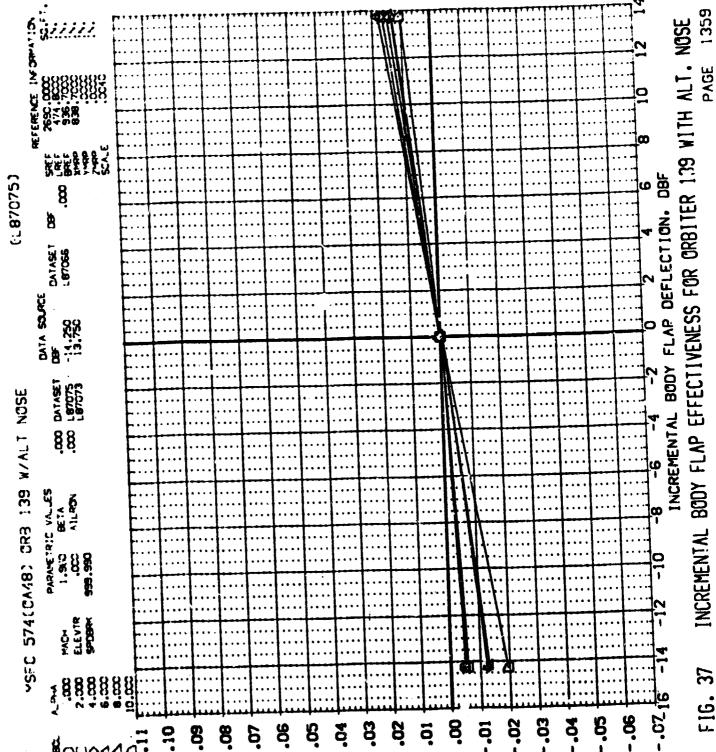








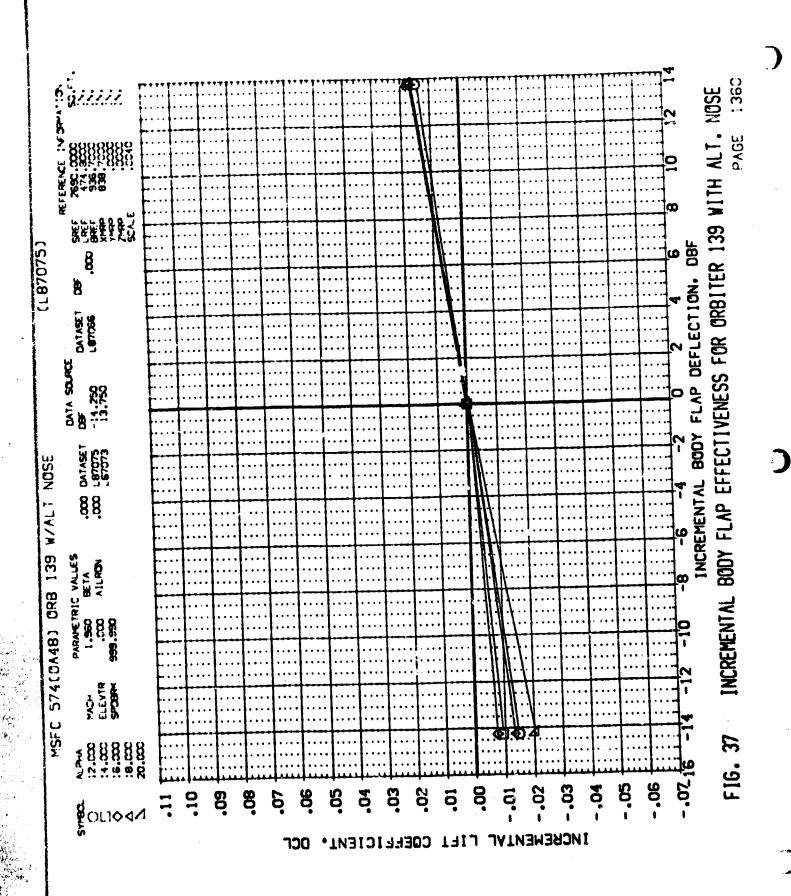


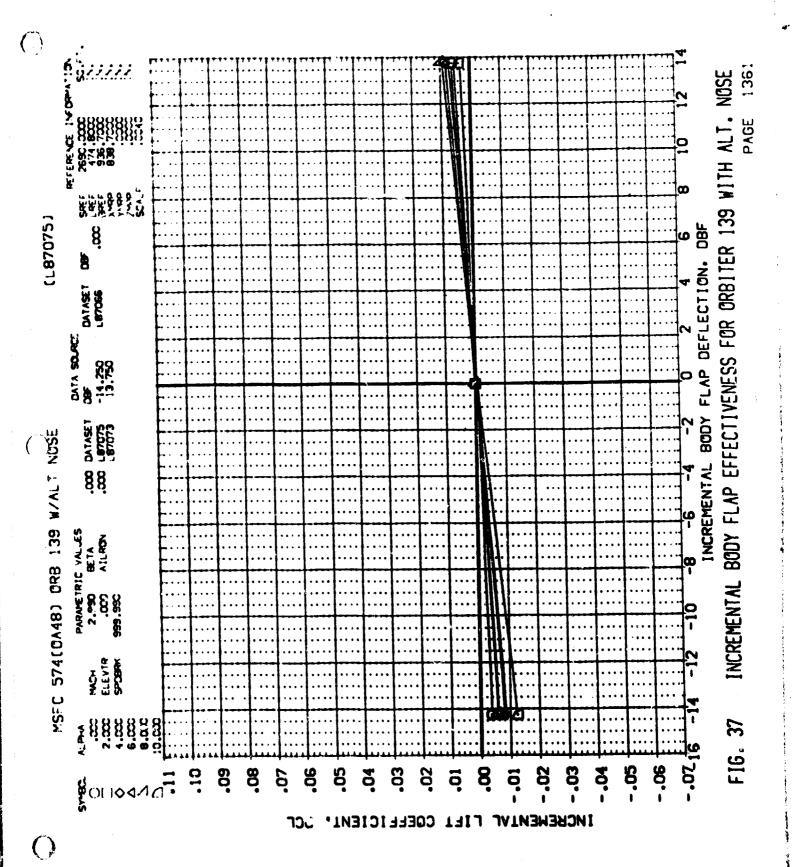


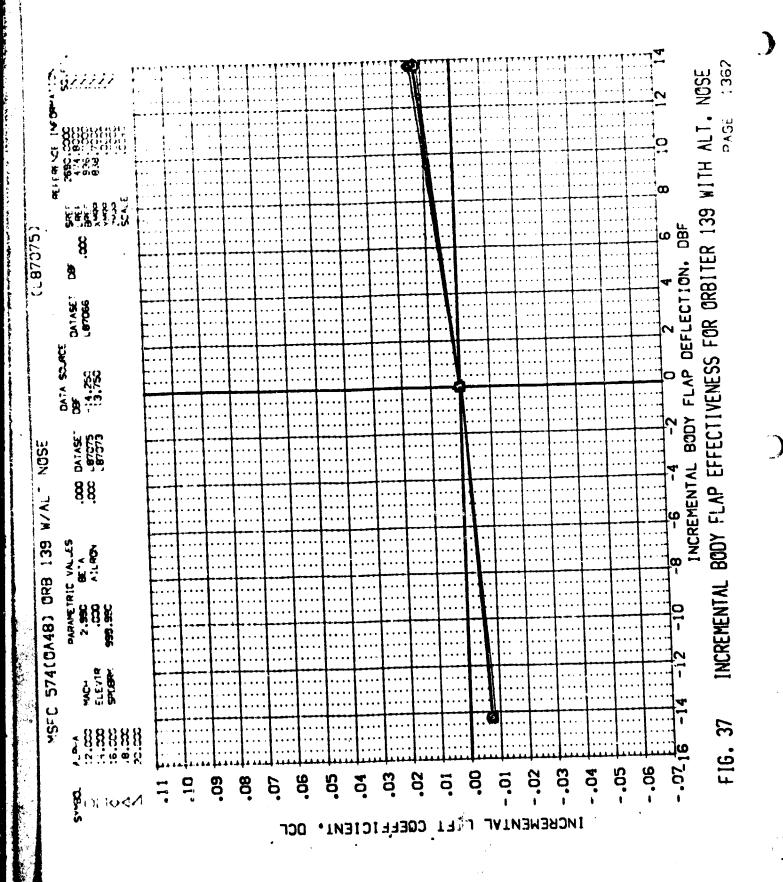
PAGE 1359

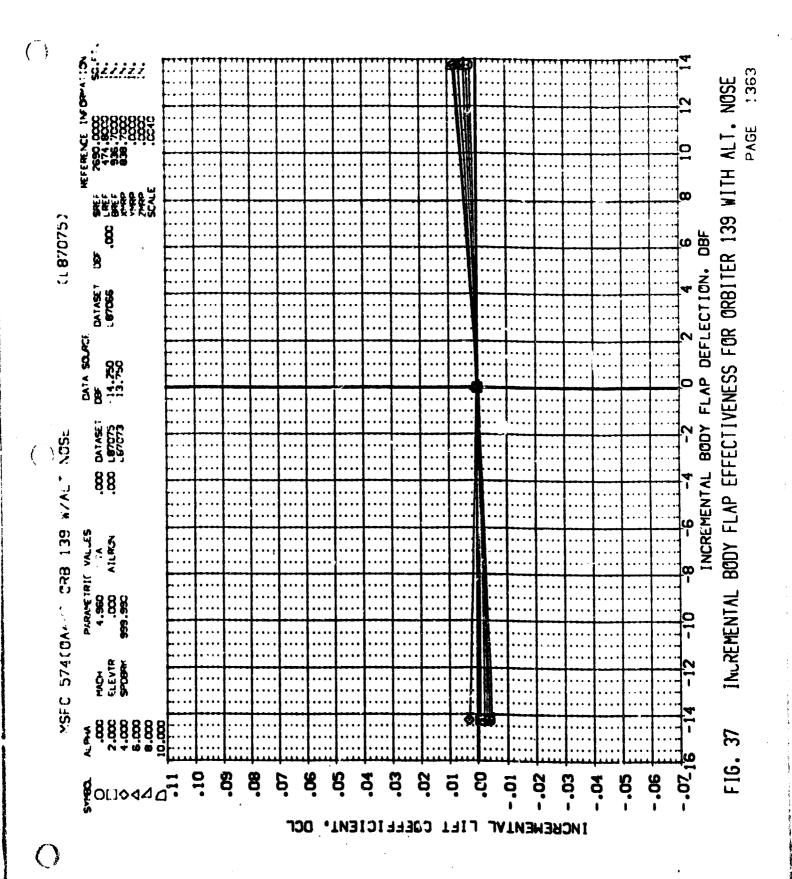
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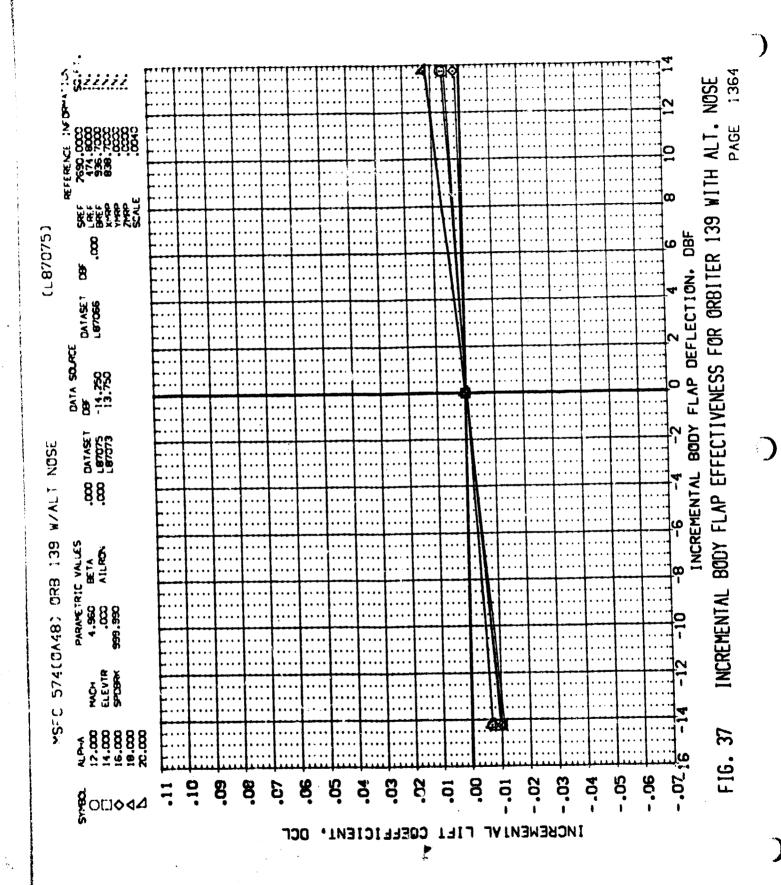
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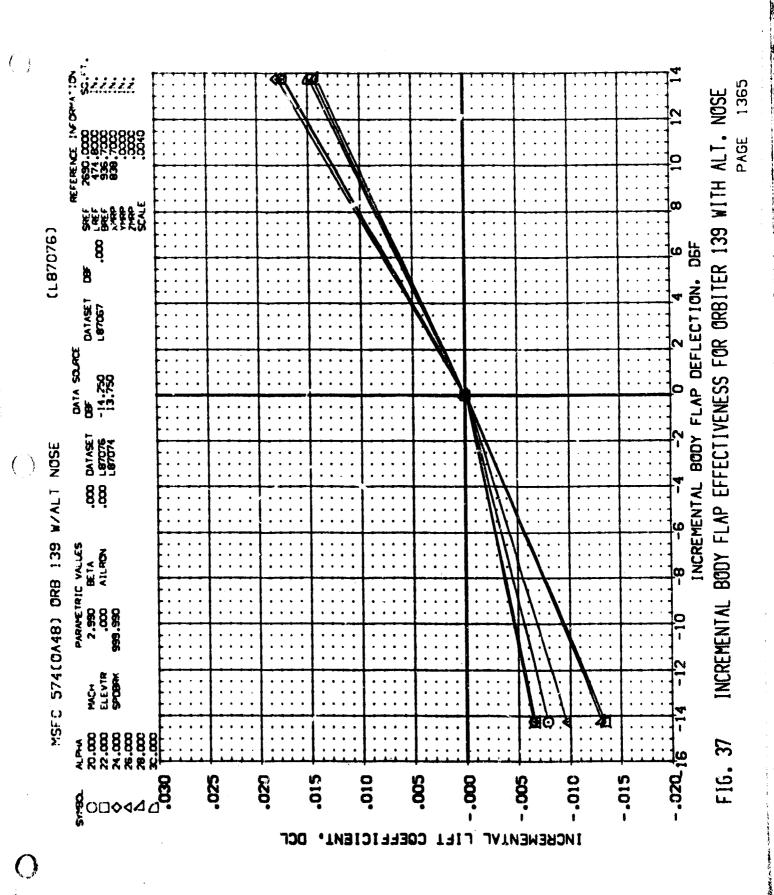


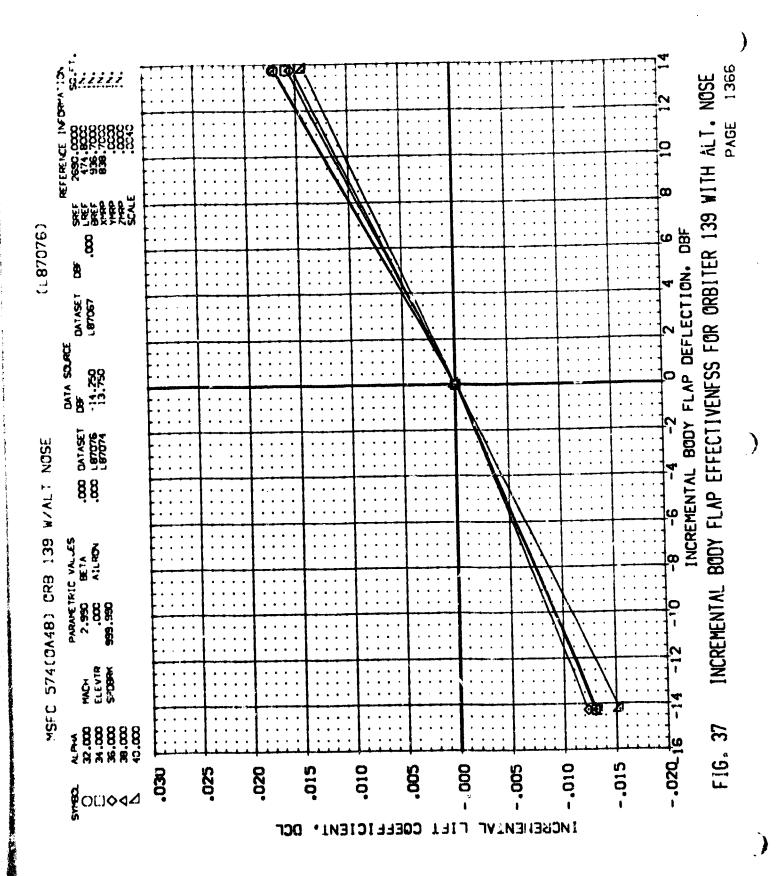


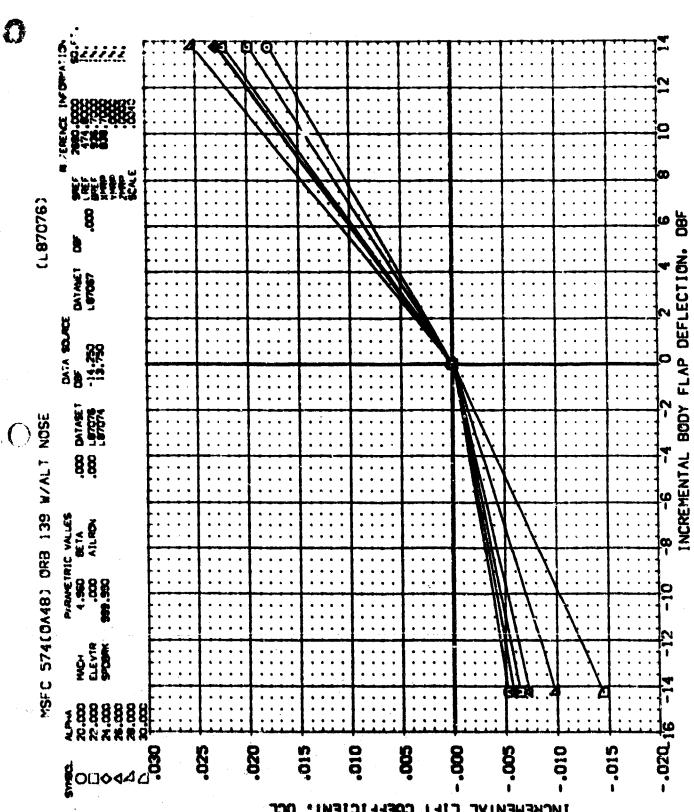




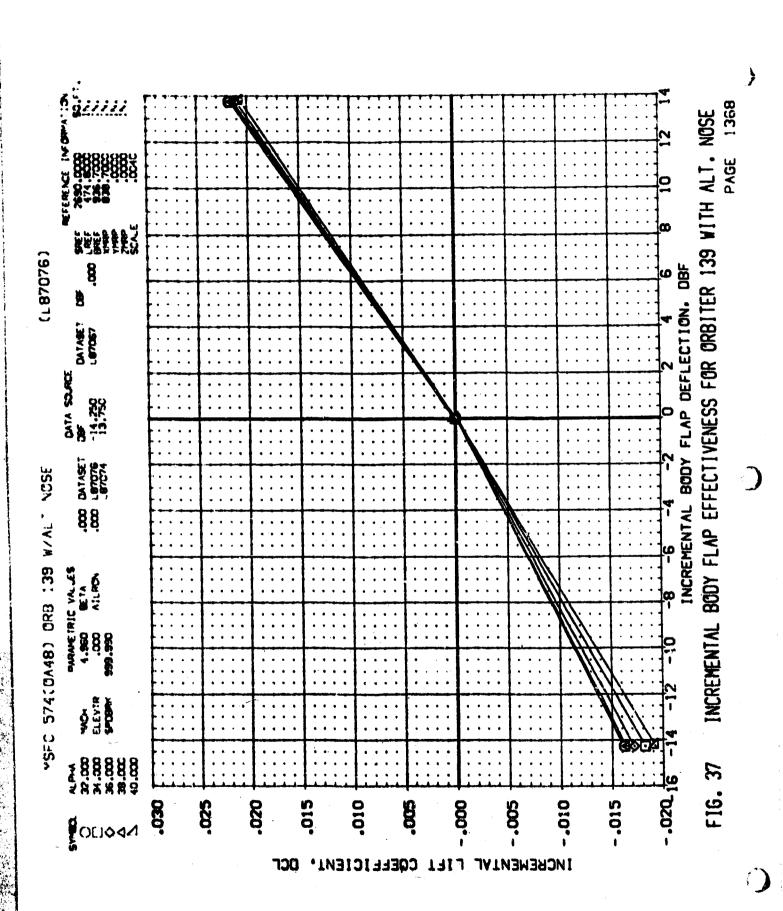




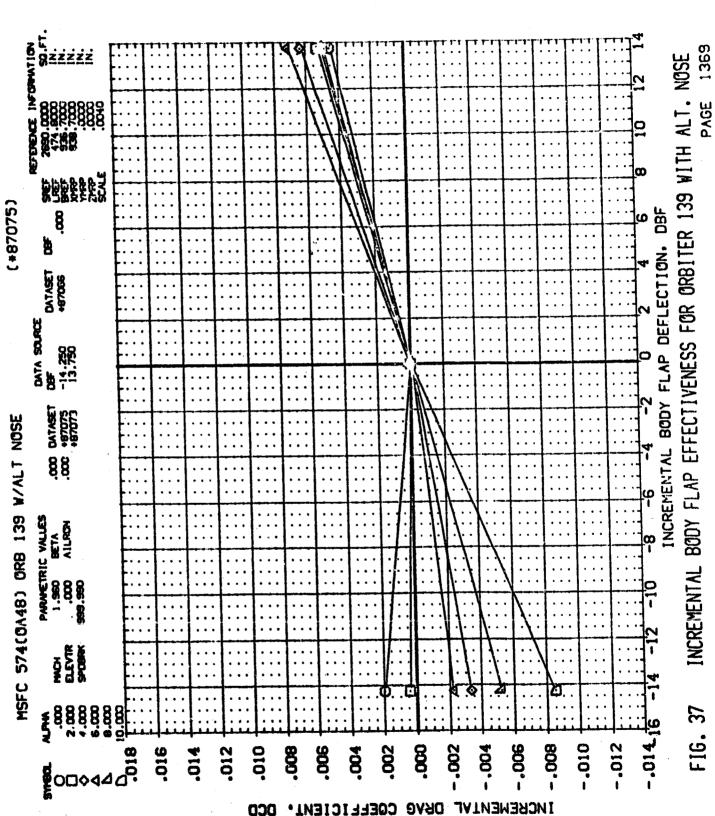


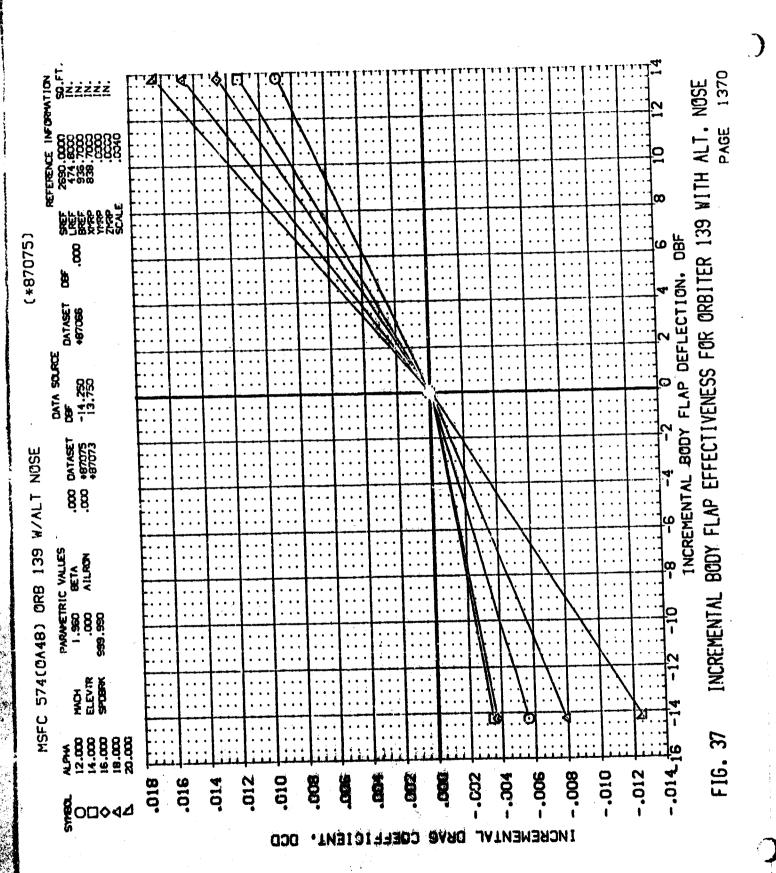


INCREMENTAL BODY FLAP EFFECTIVENESS FOR ORBITER 139 WITH ALT. NOSE PAGE FIG. 37

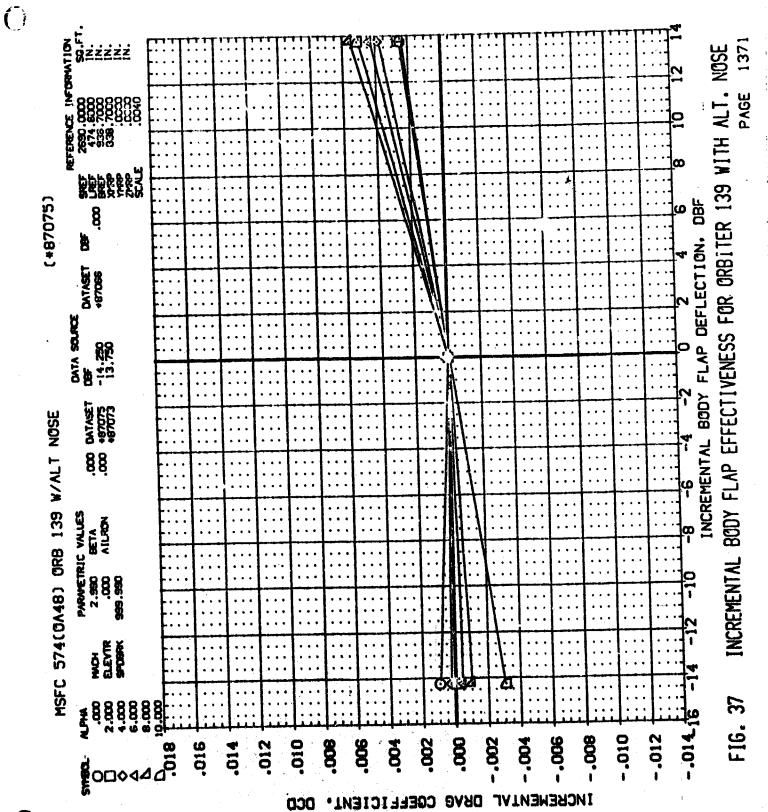


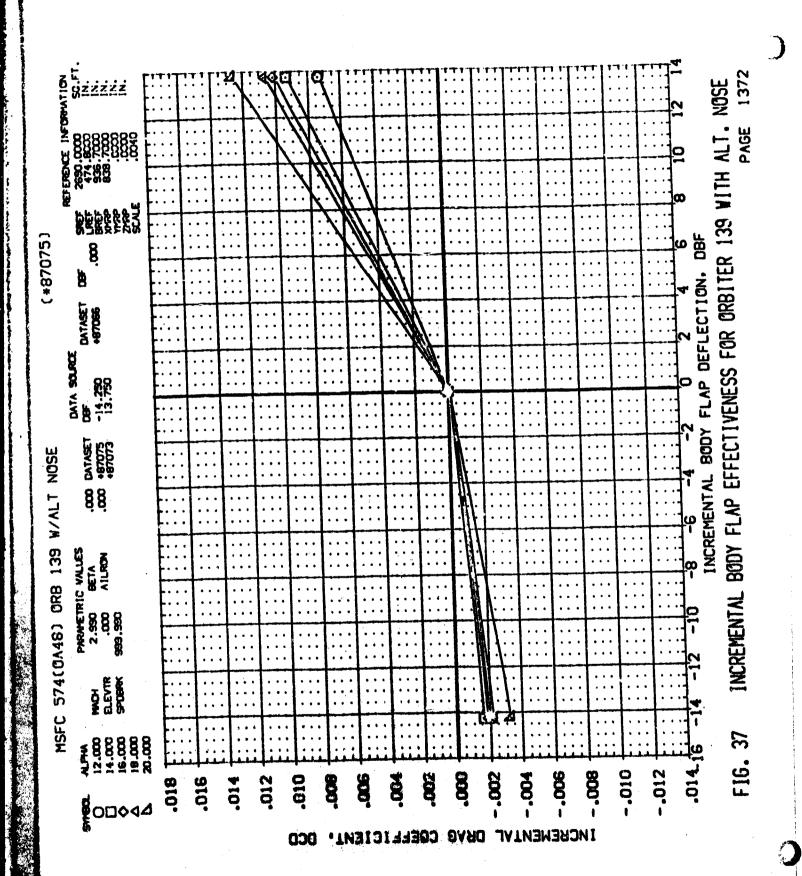






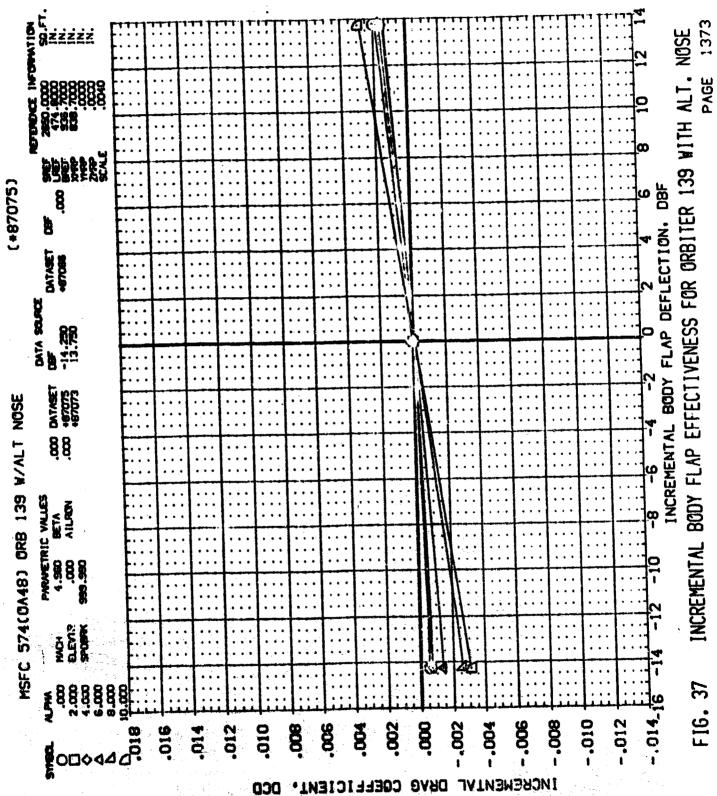


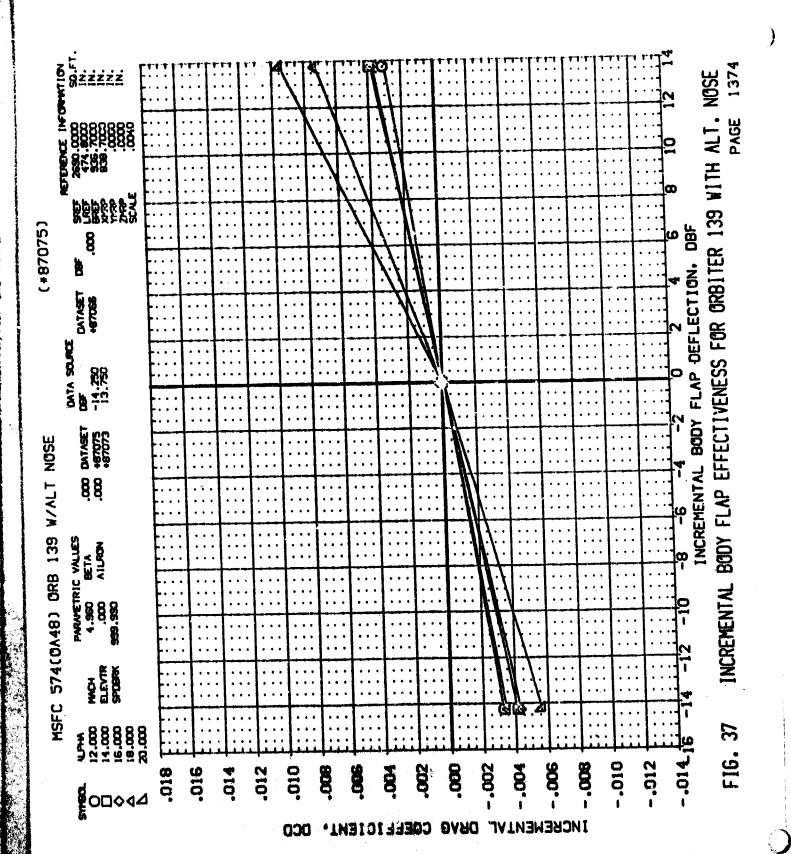




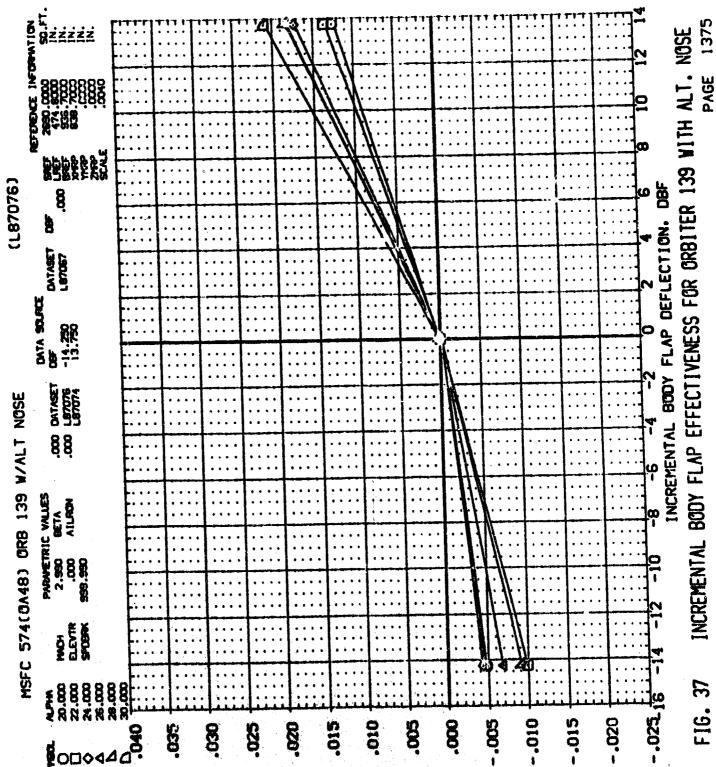


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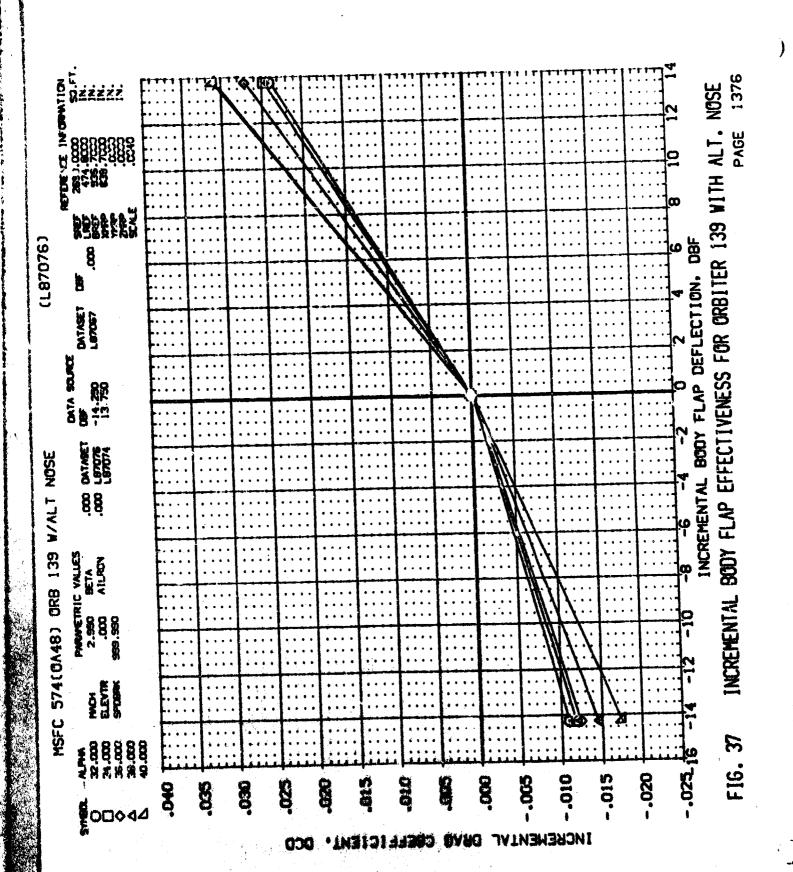


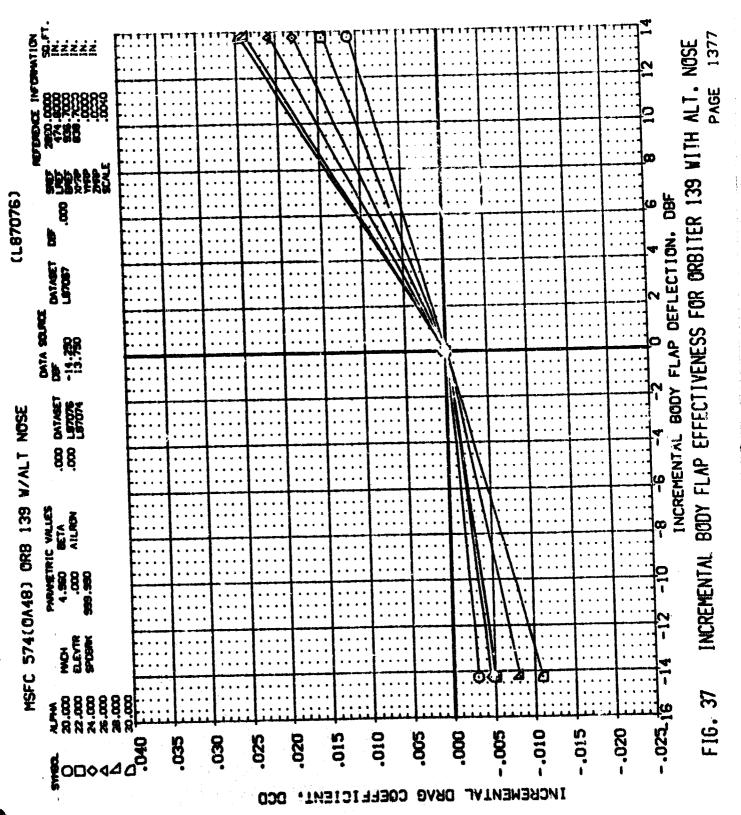
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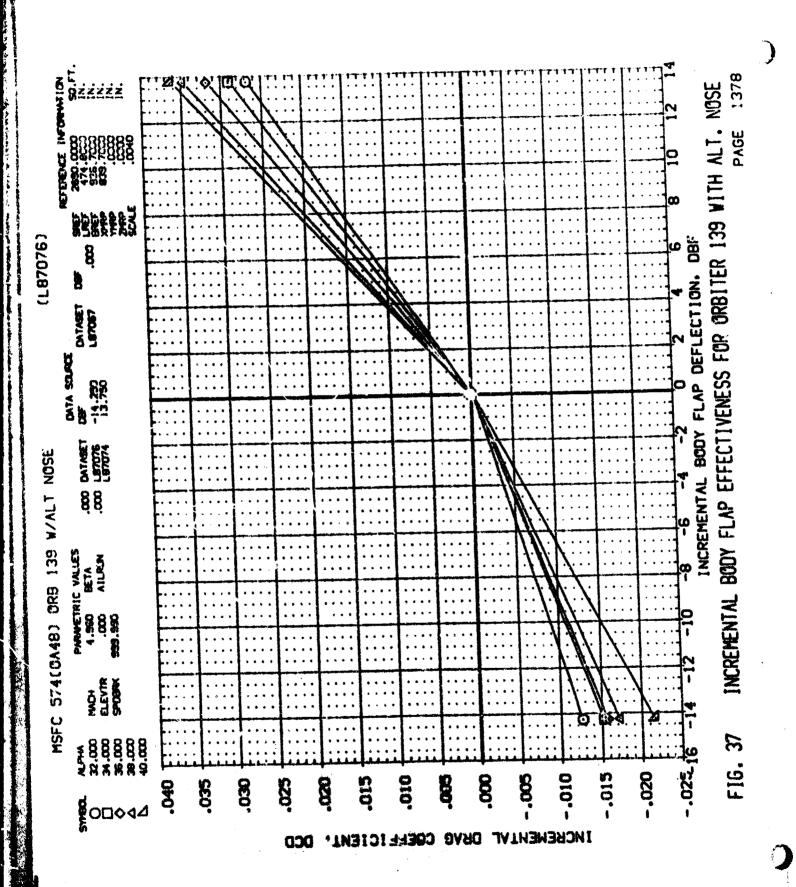


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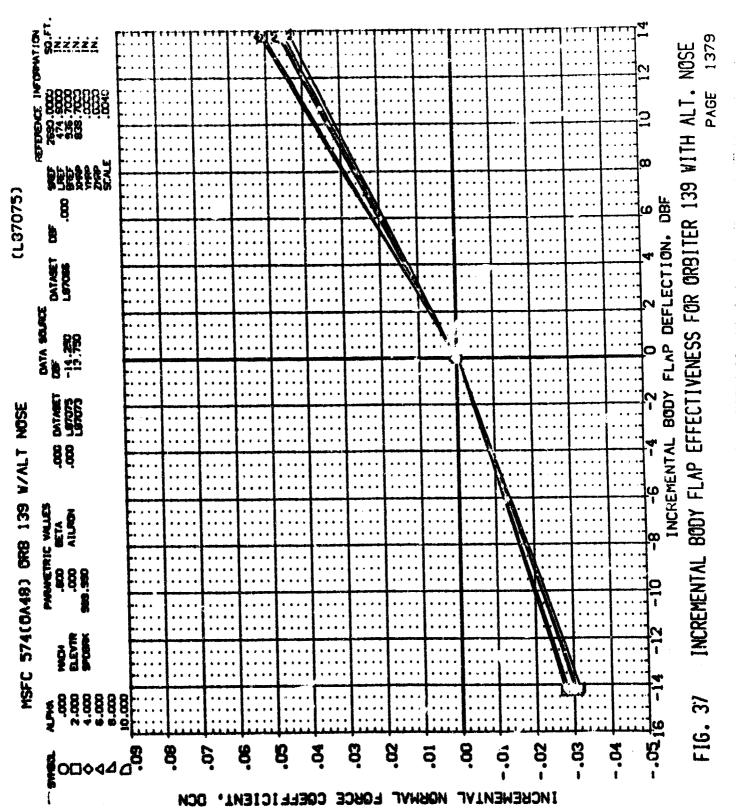


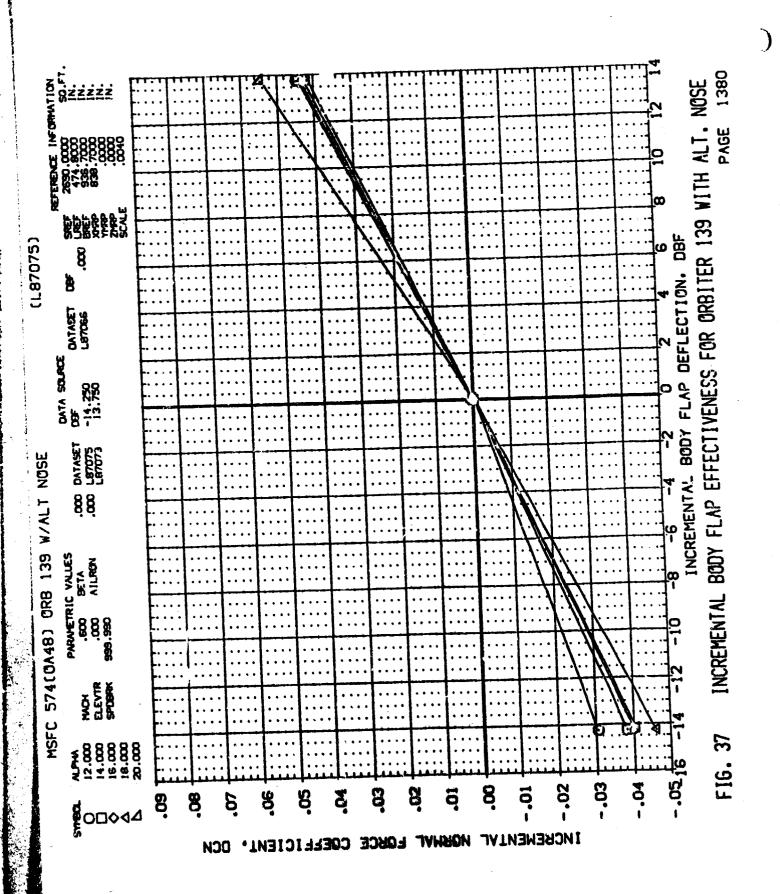






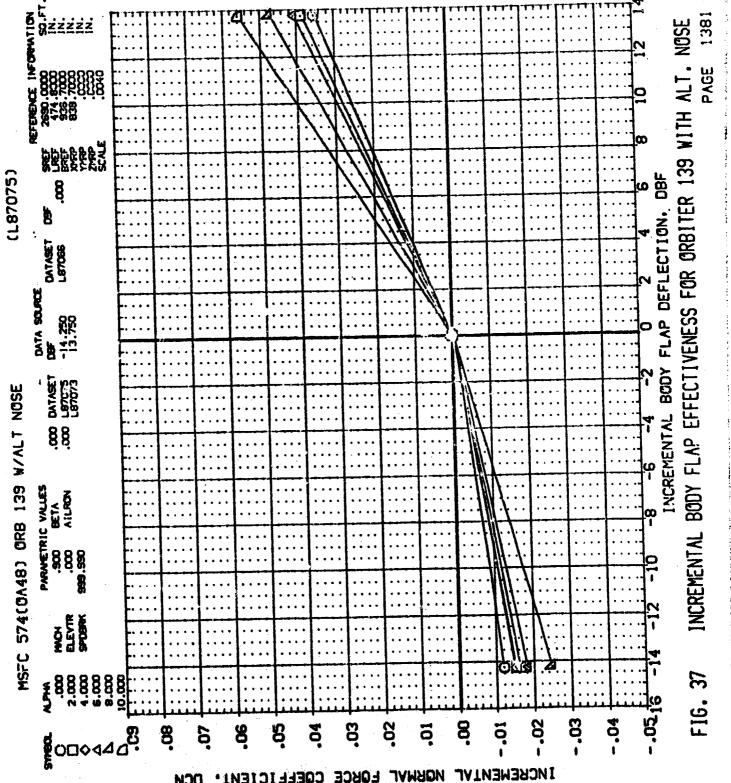
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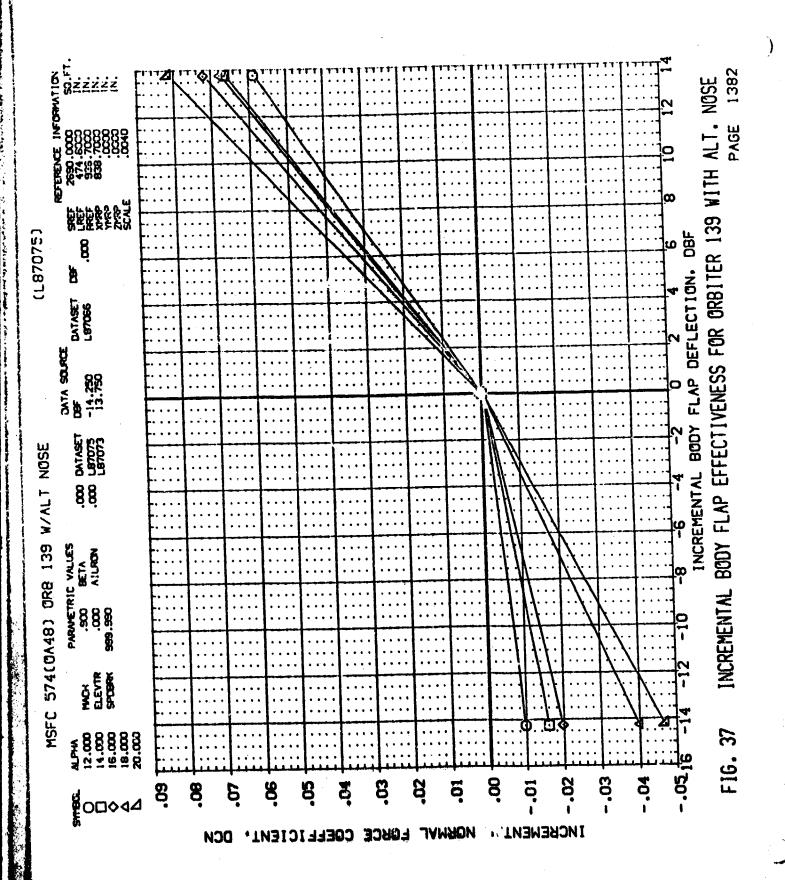






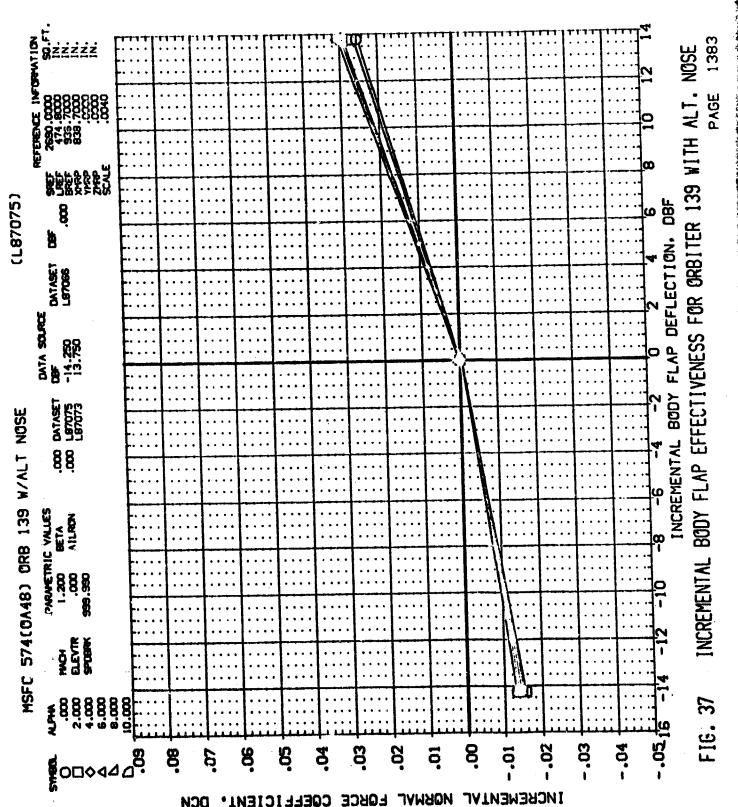
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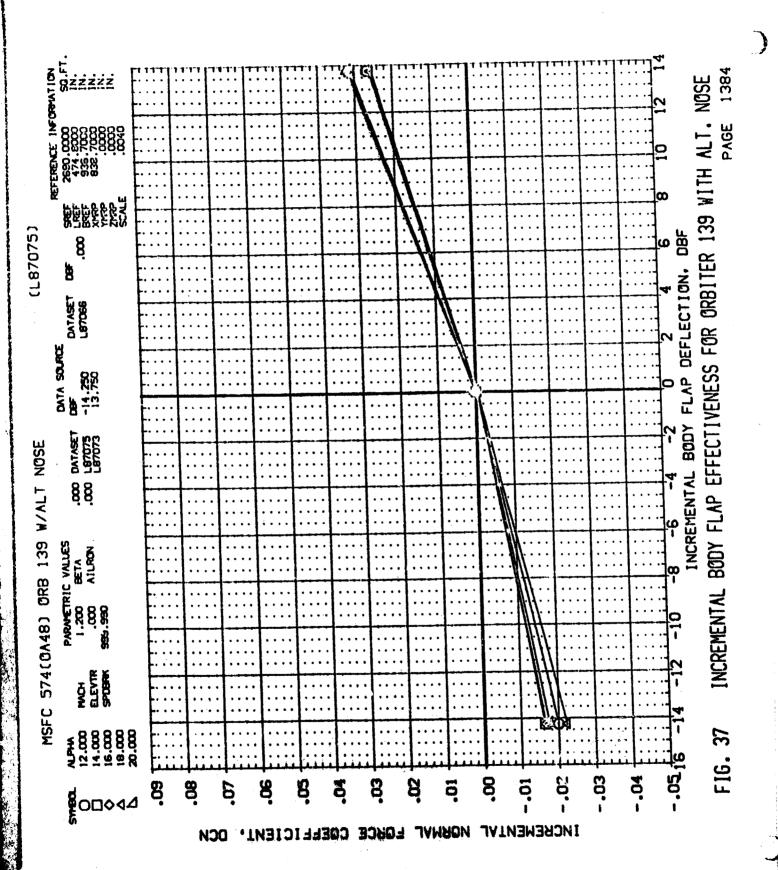




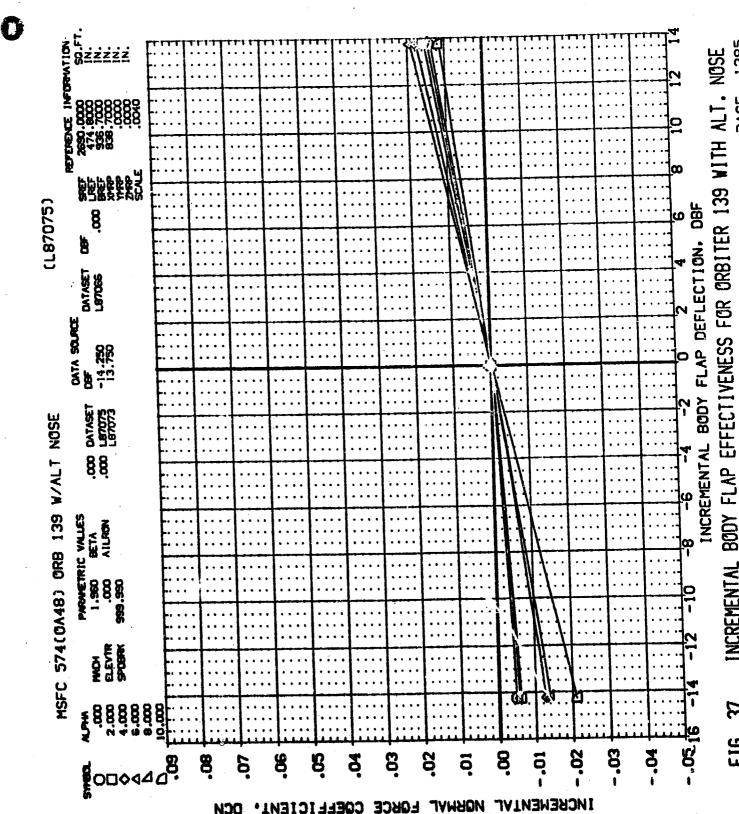


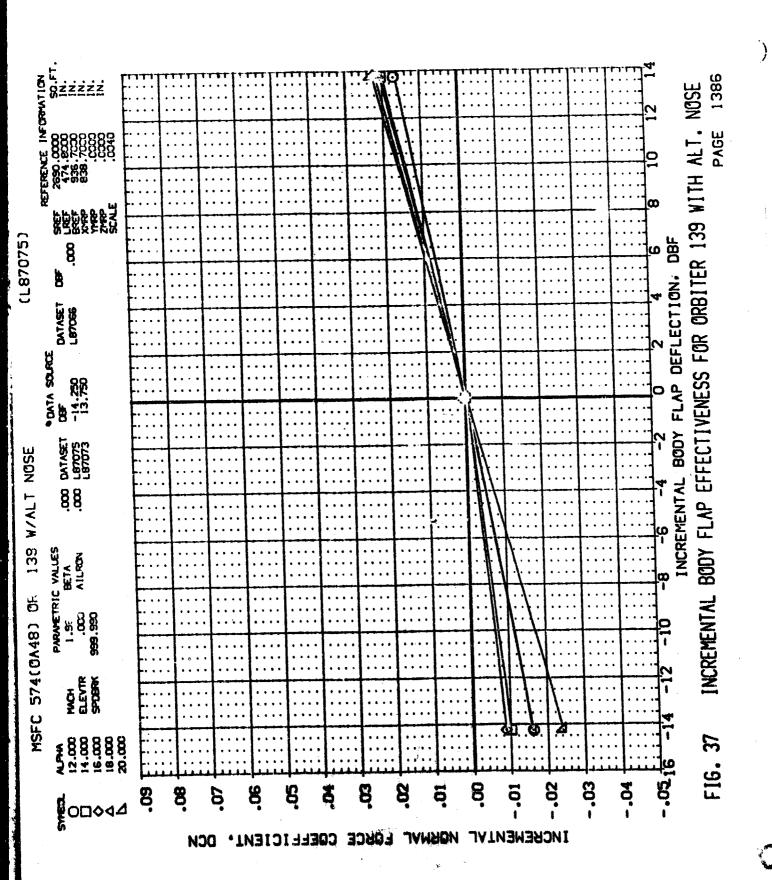
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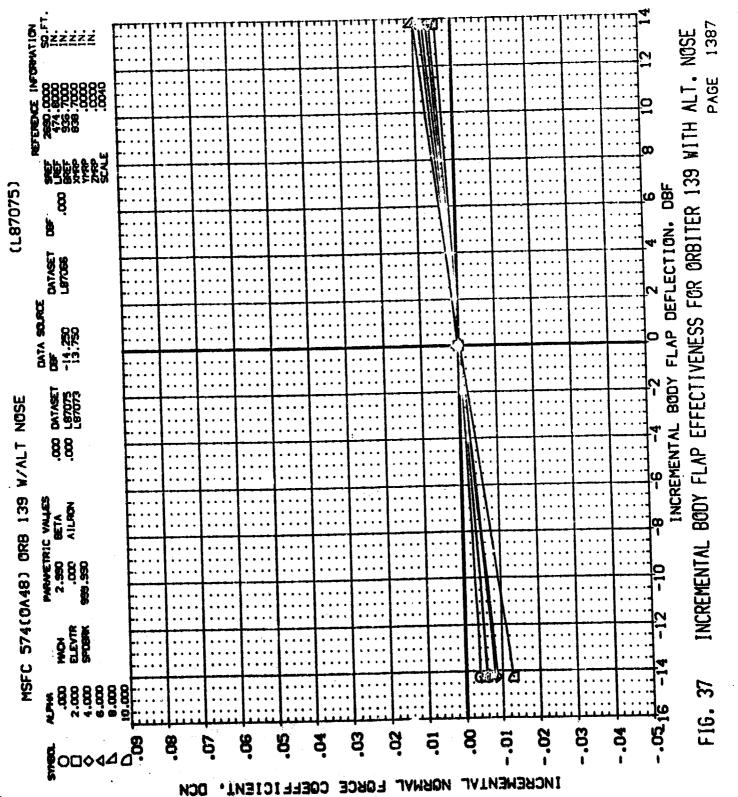


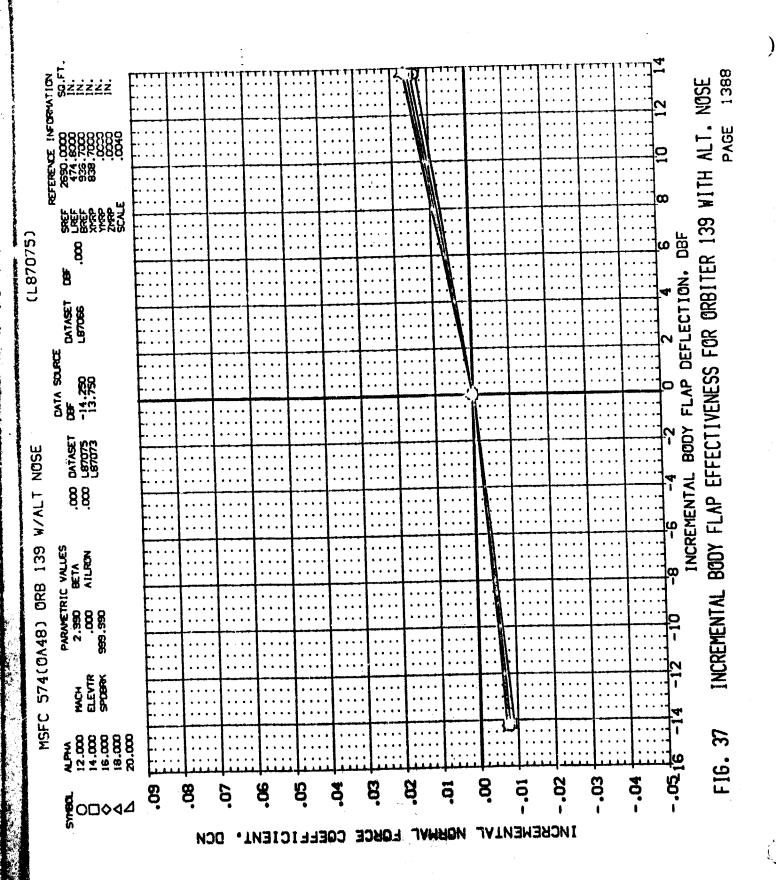




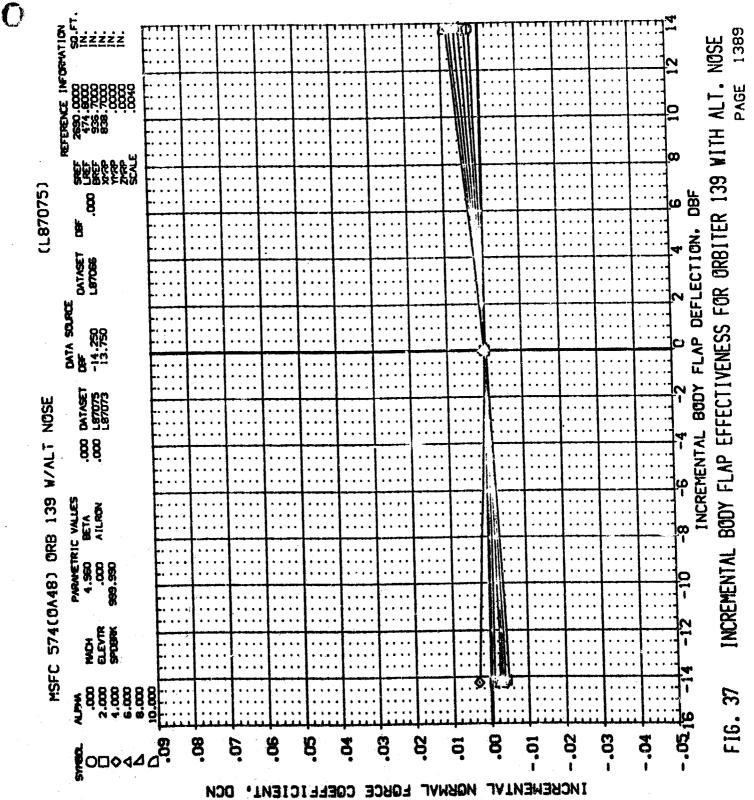


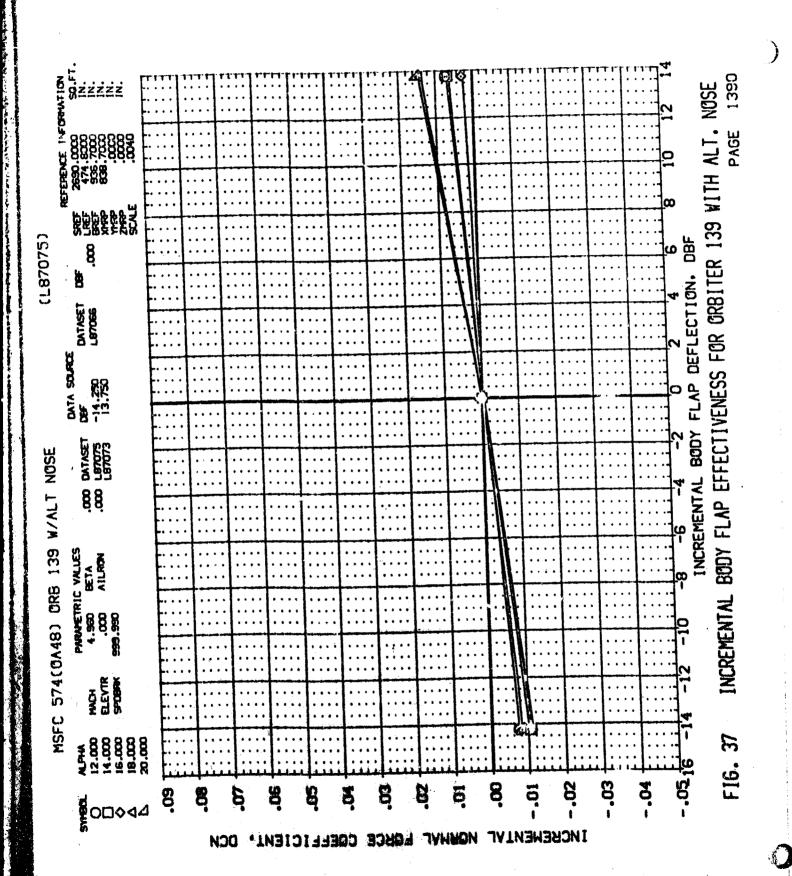




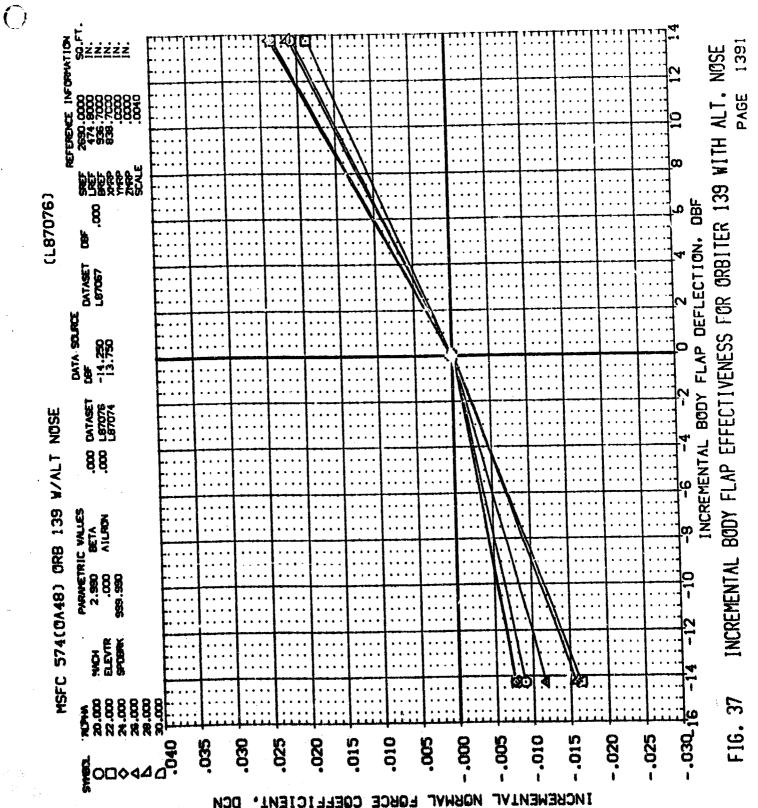


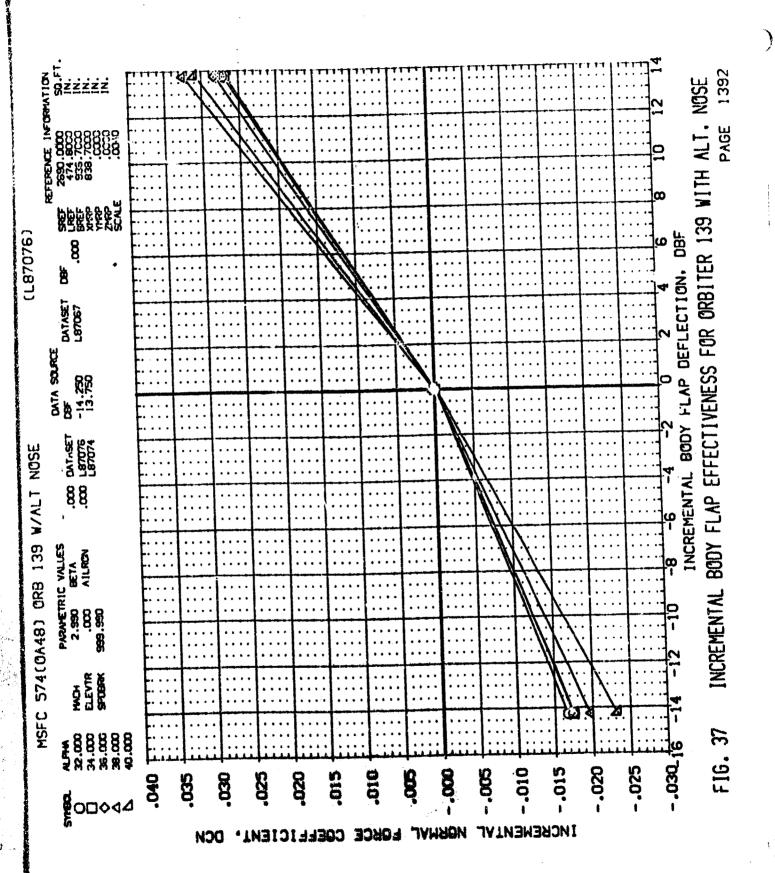




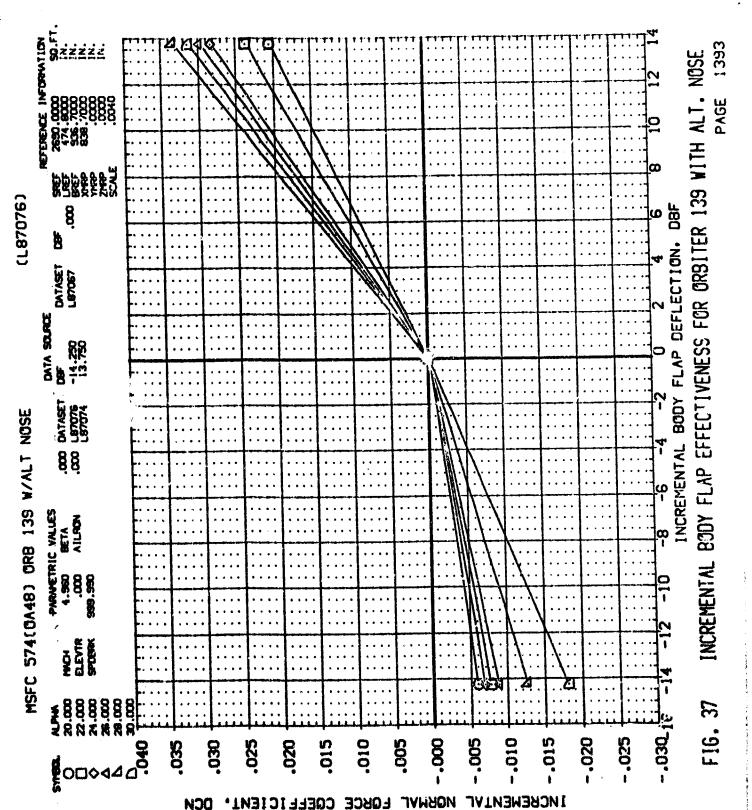


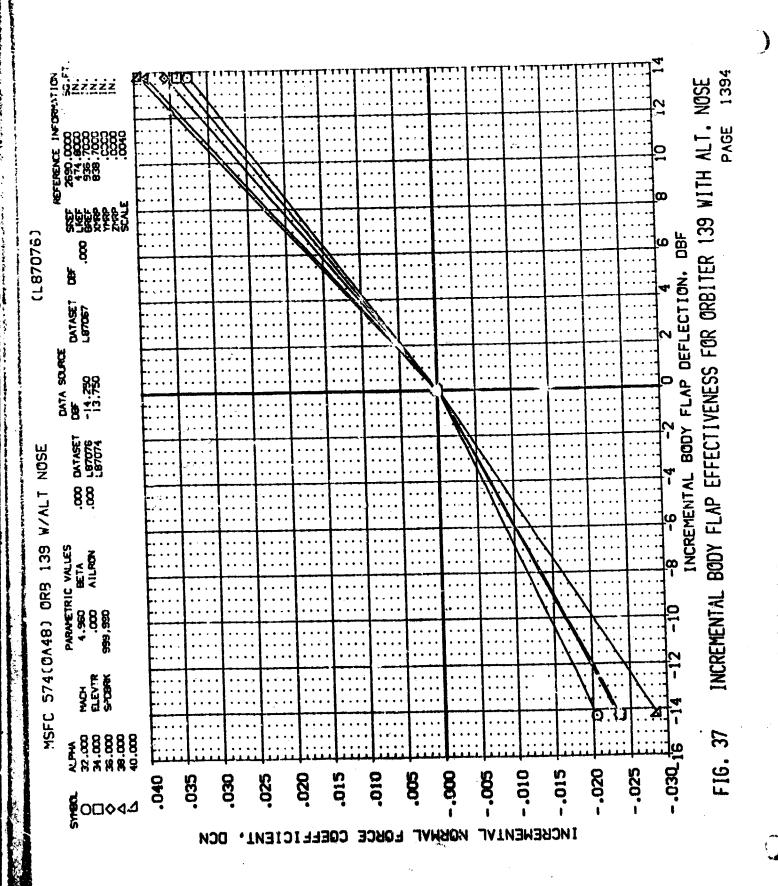






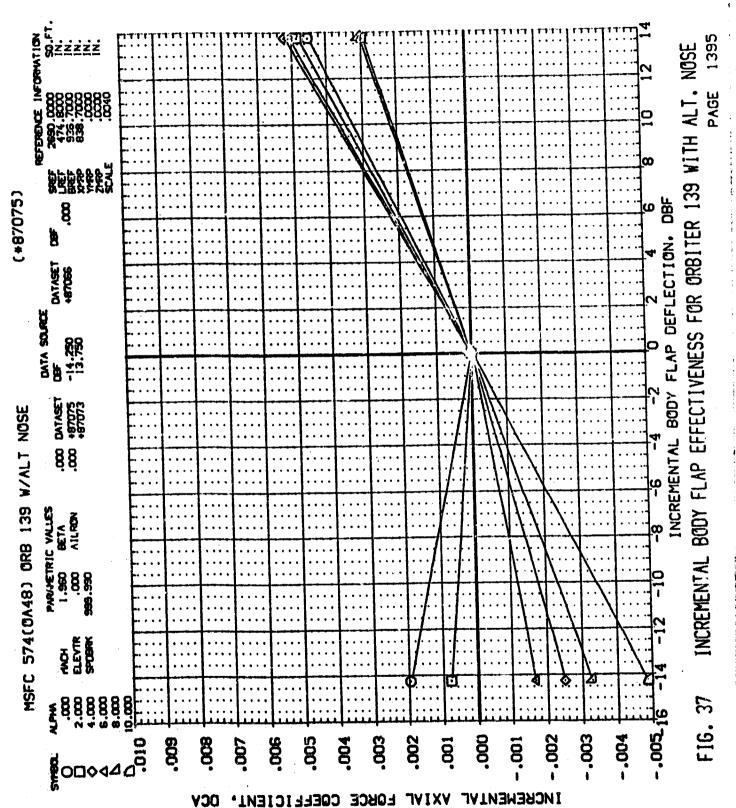


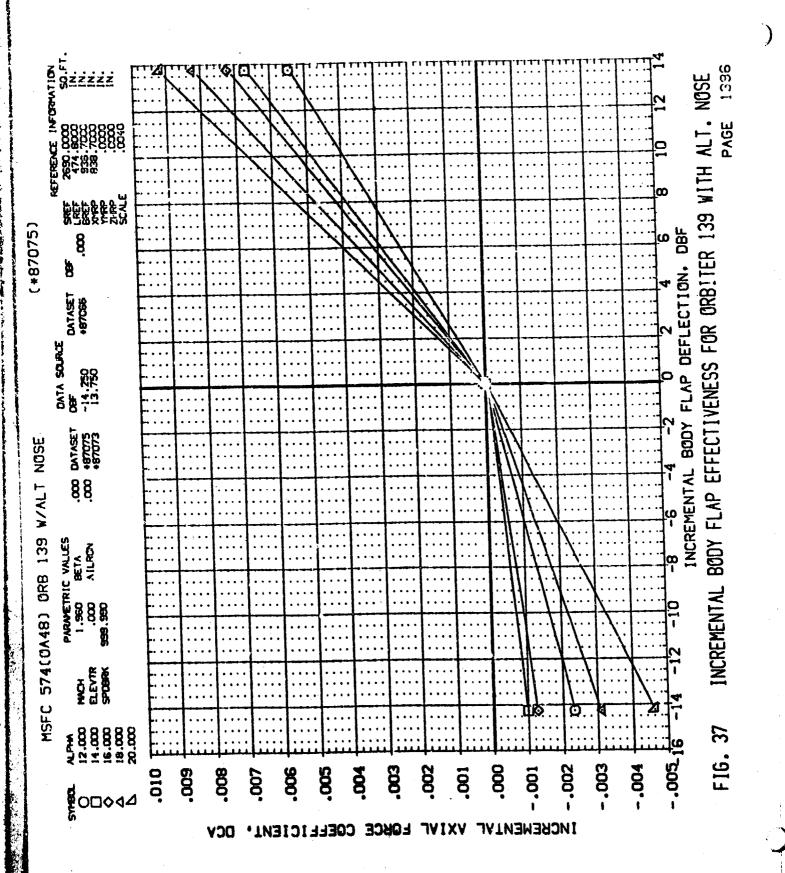




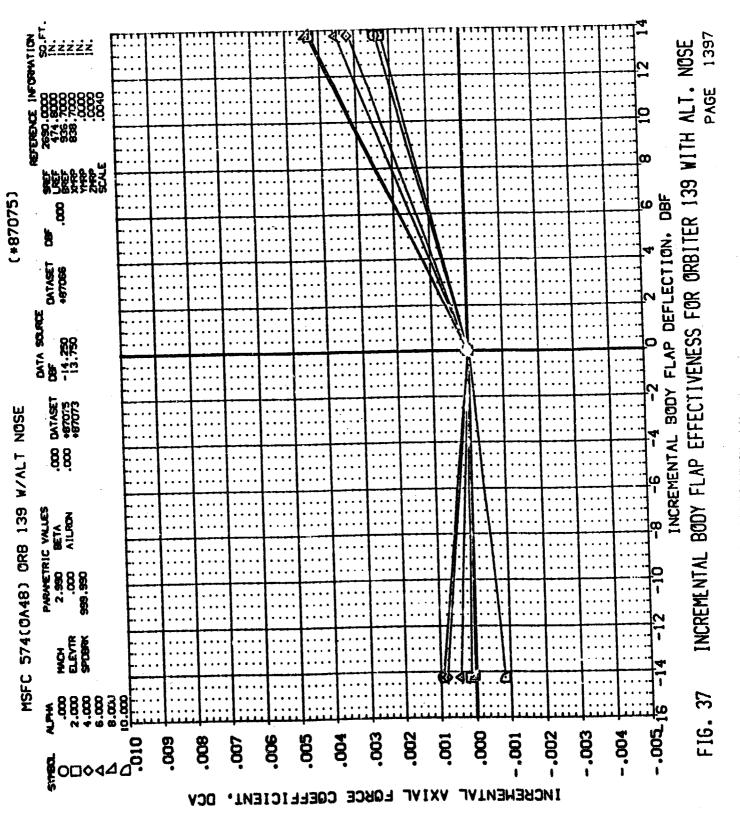


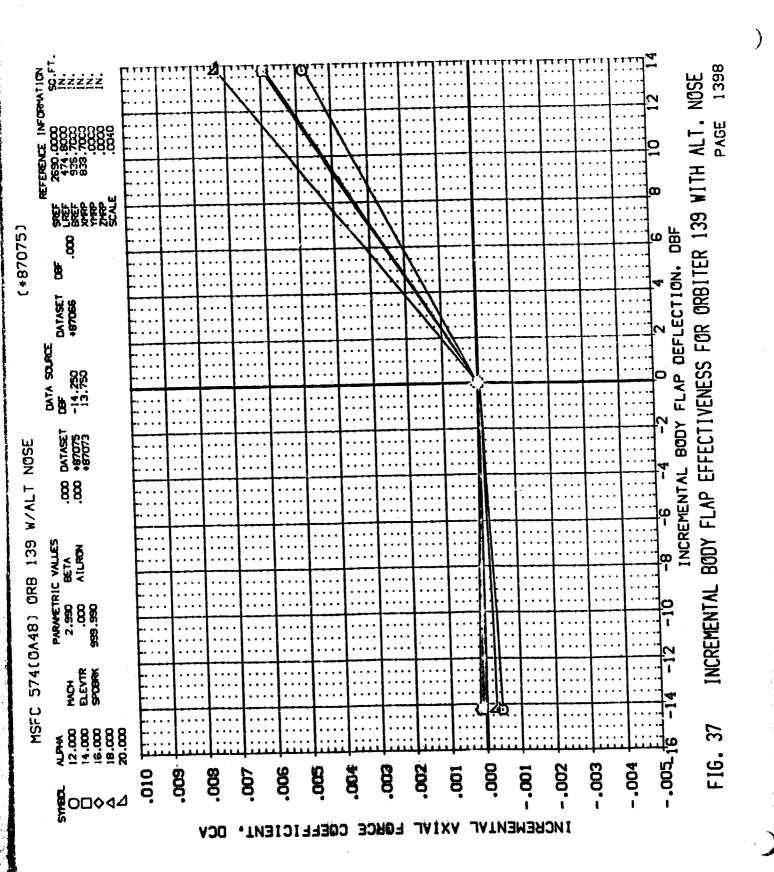
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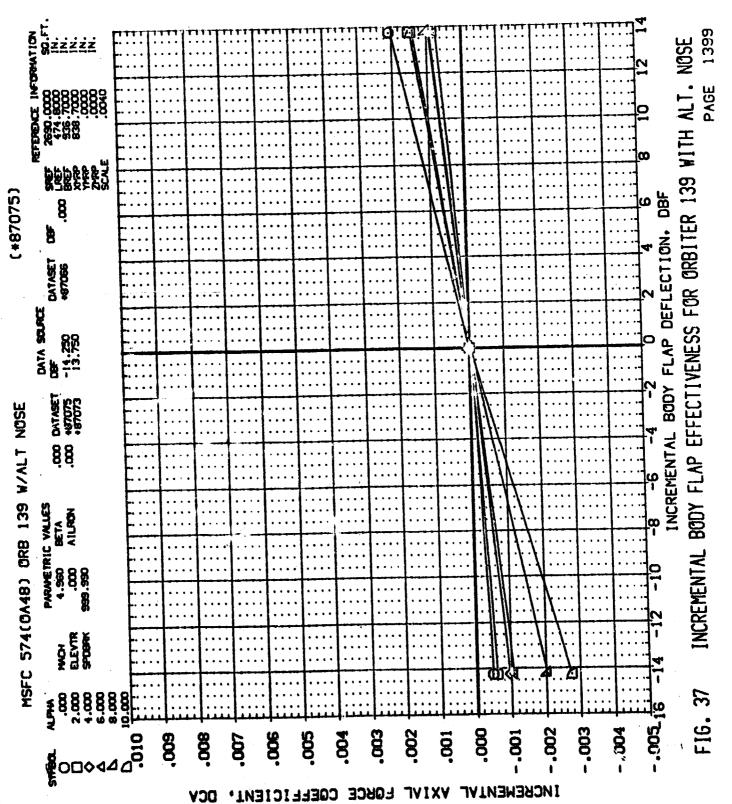


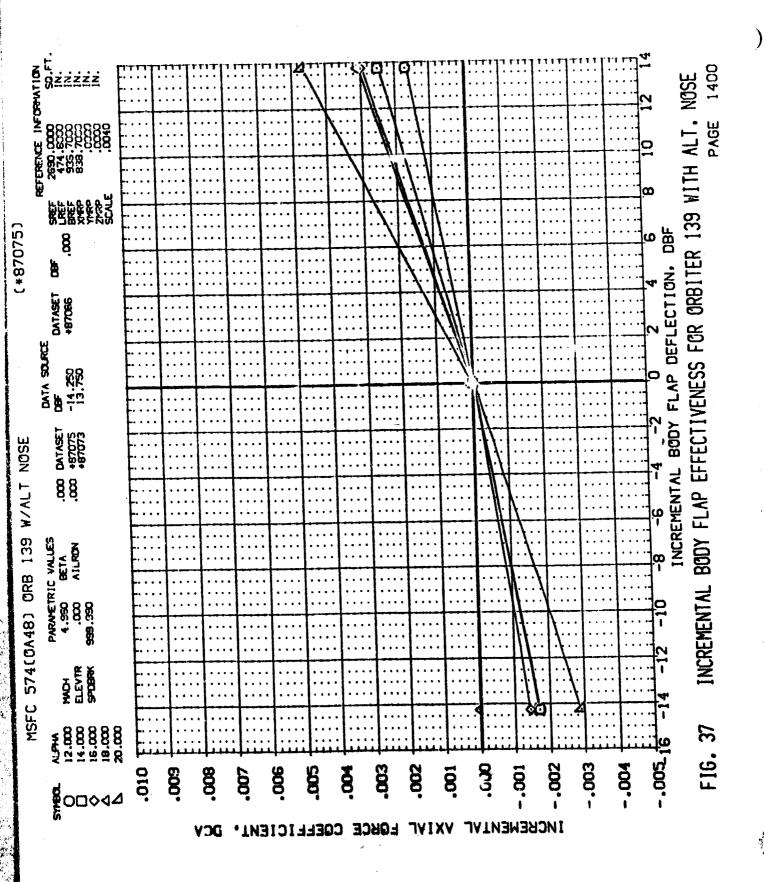




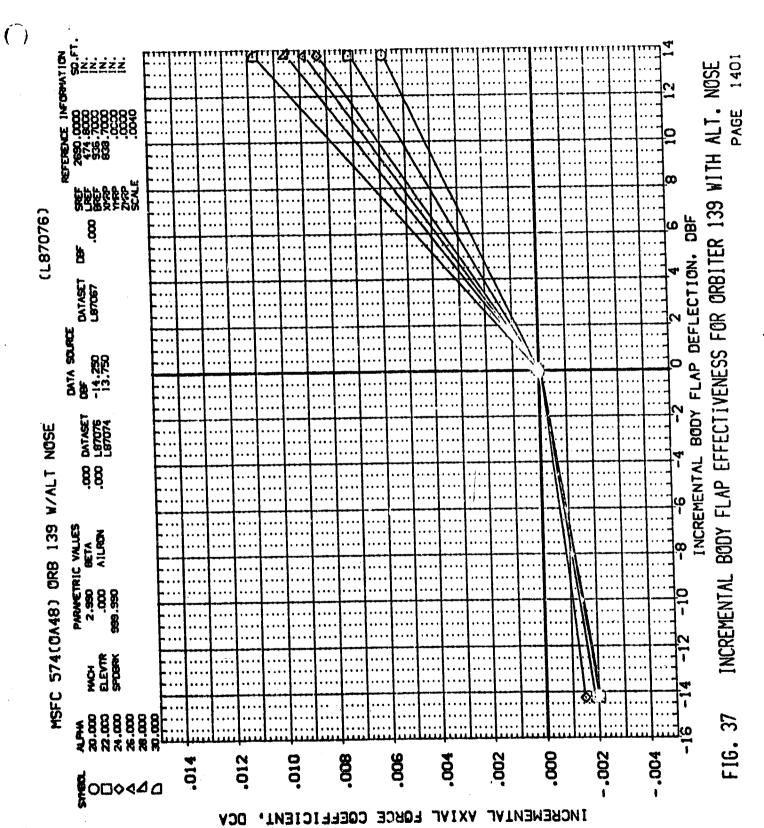


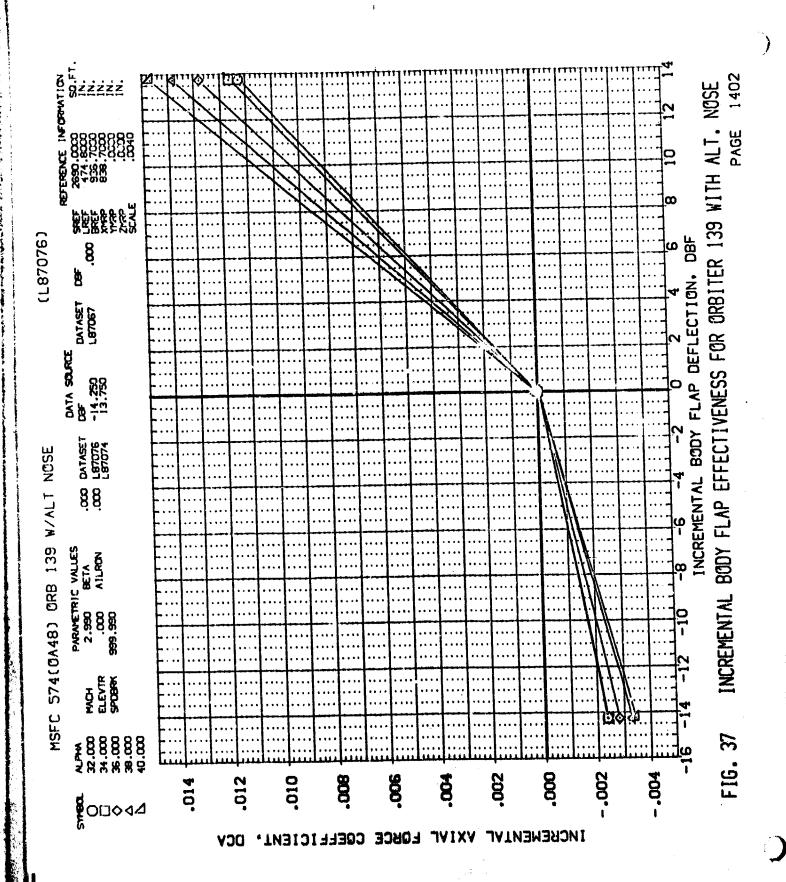
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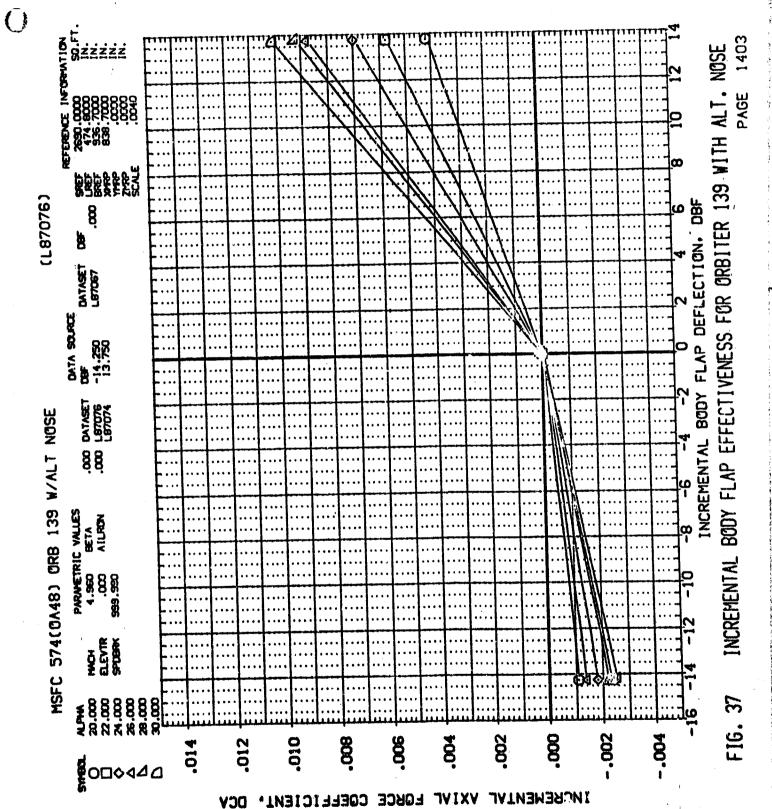


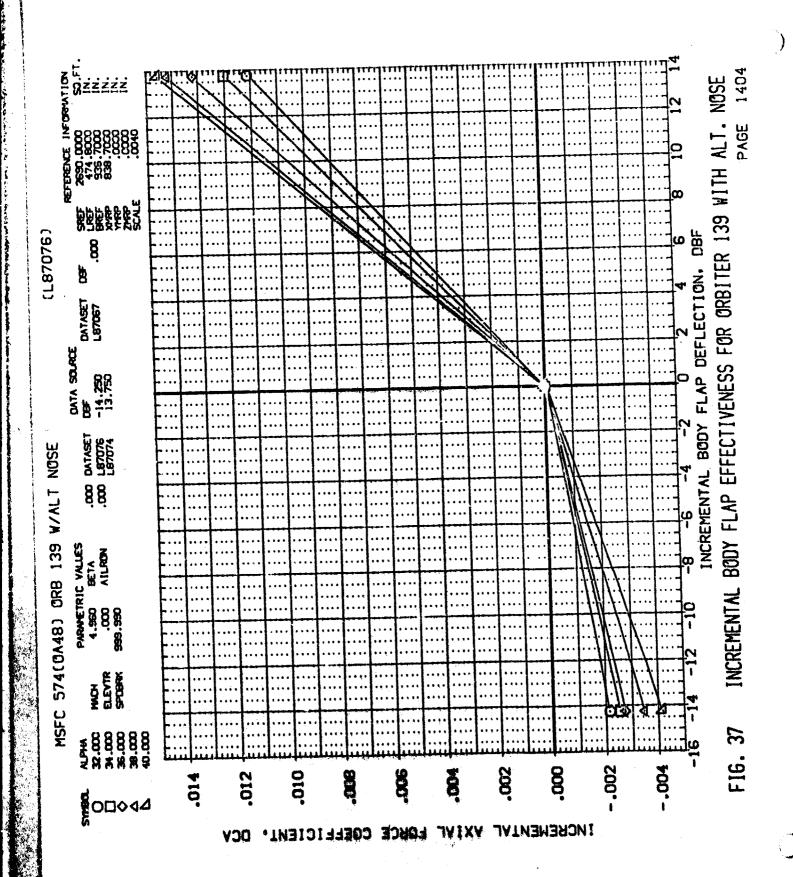




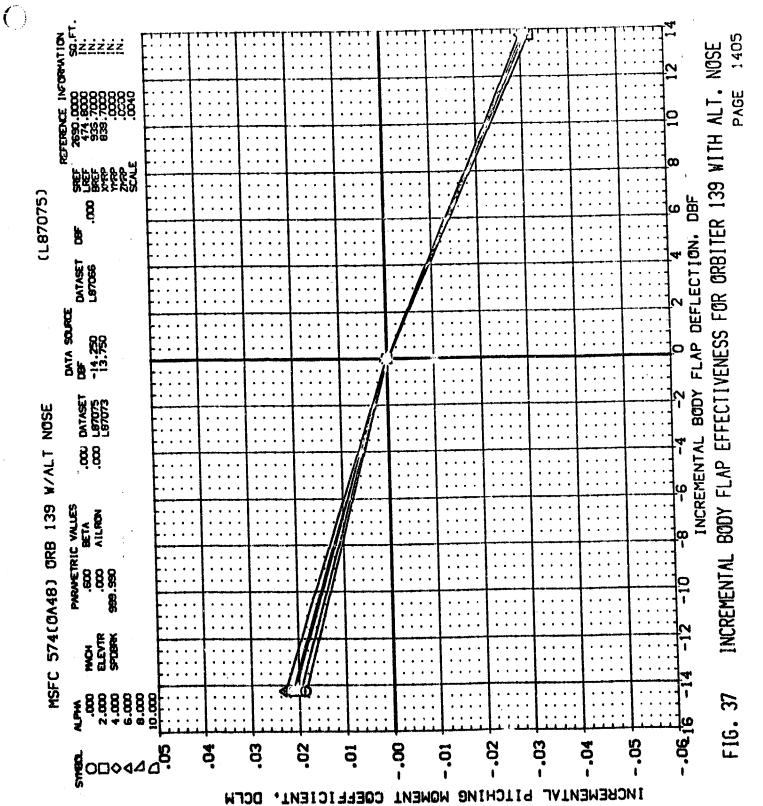


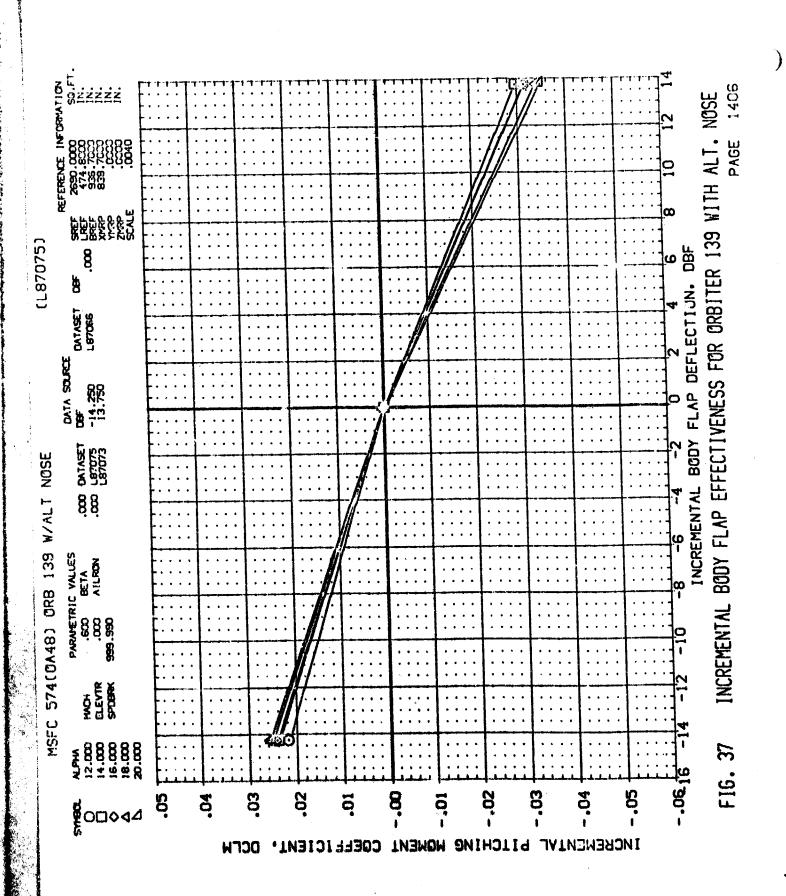


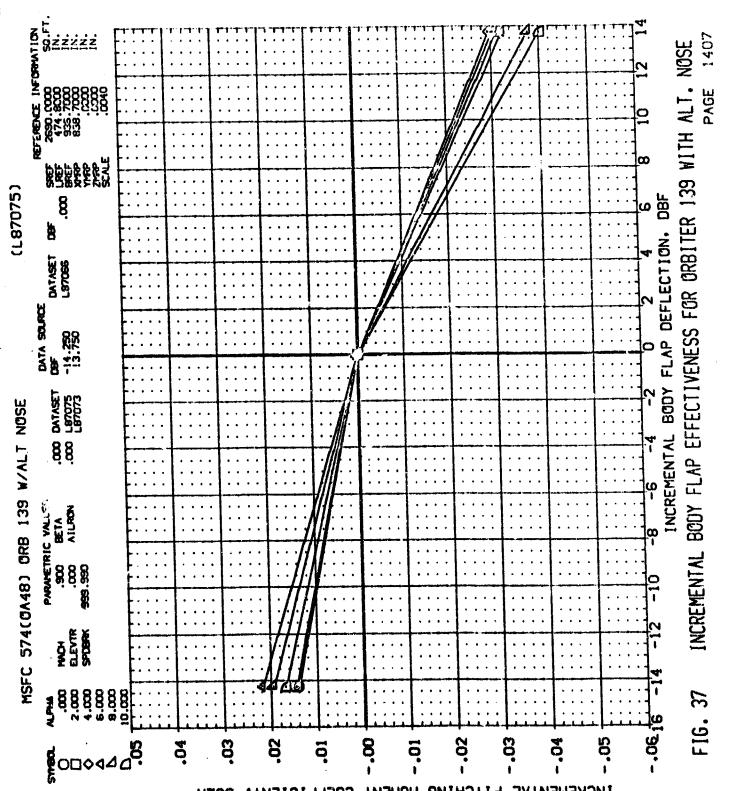


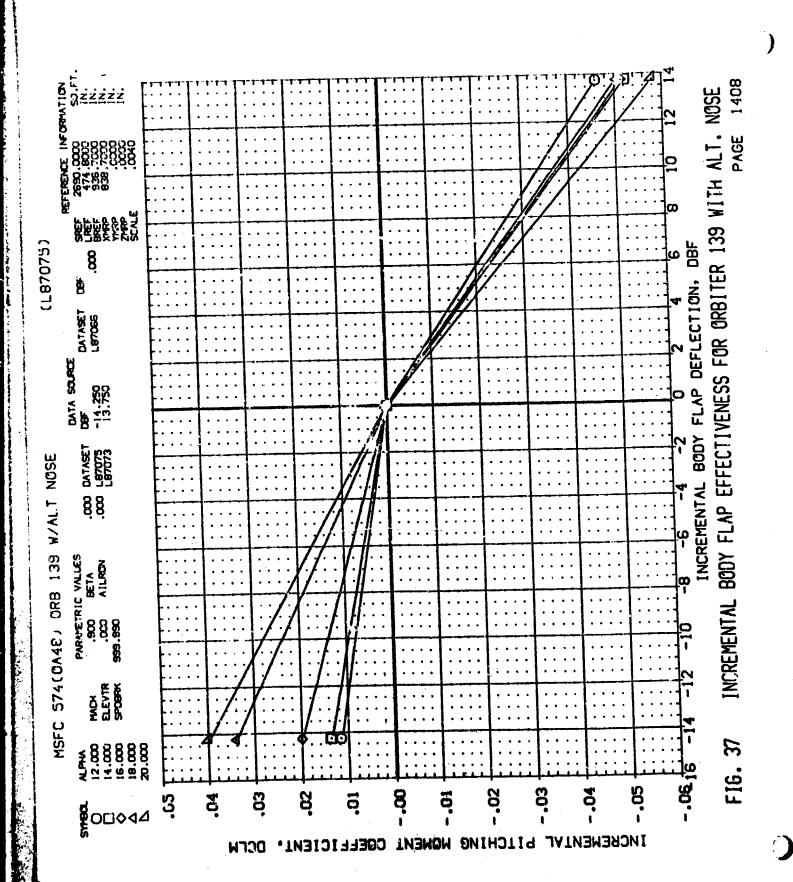


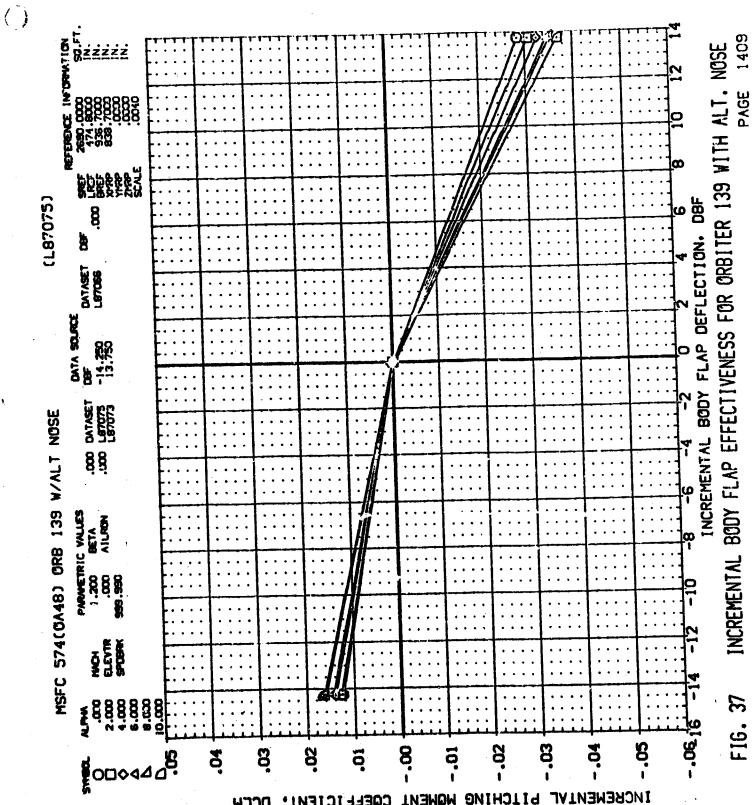






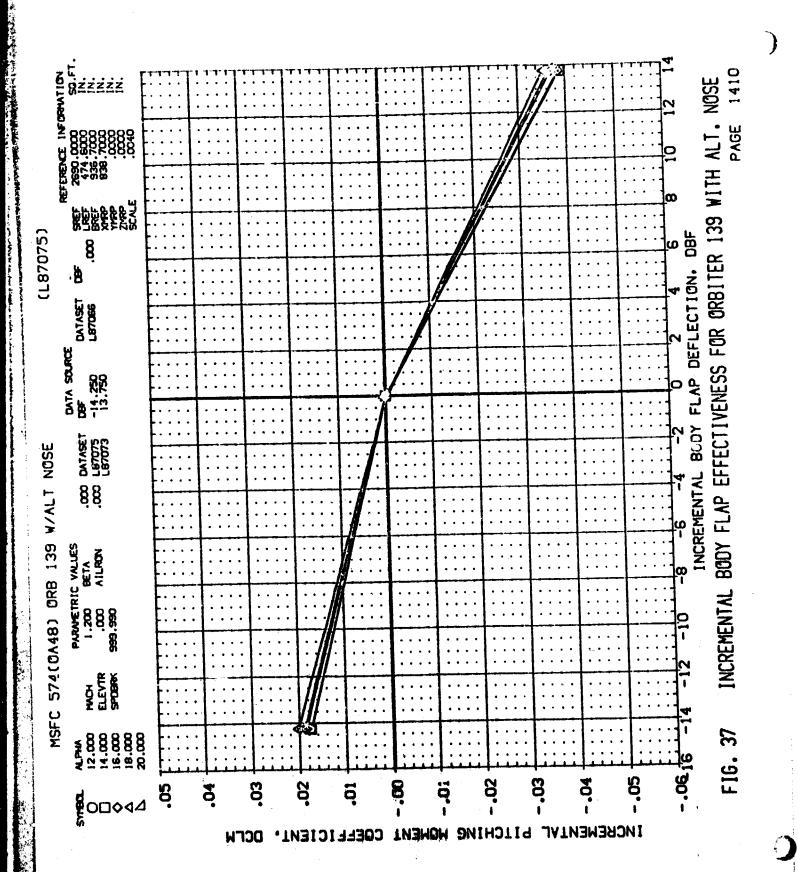






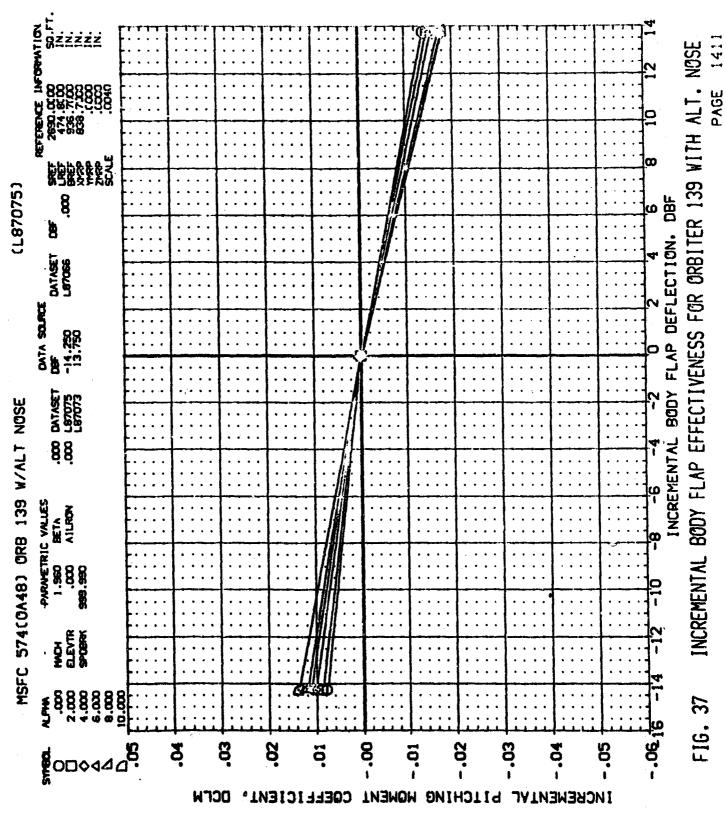
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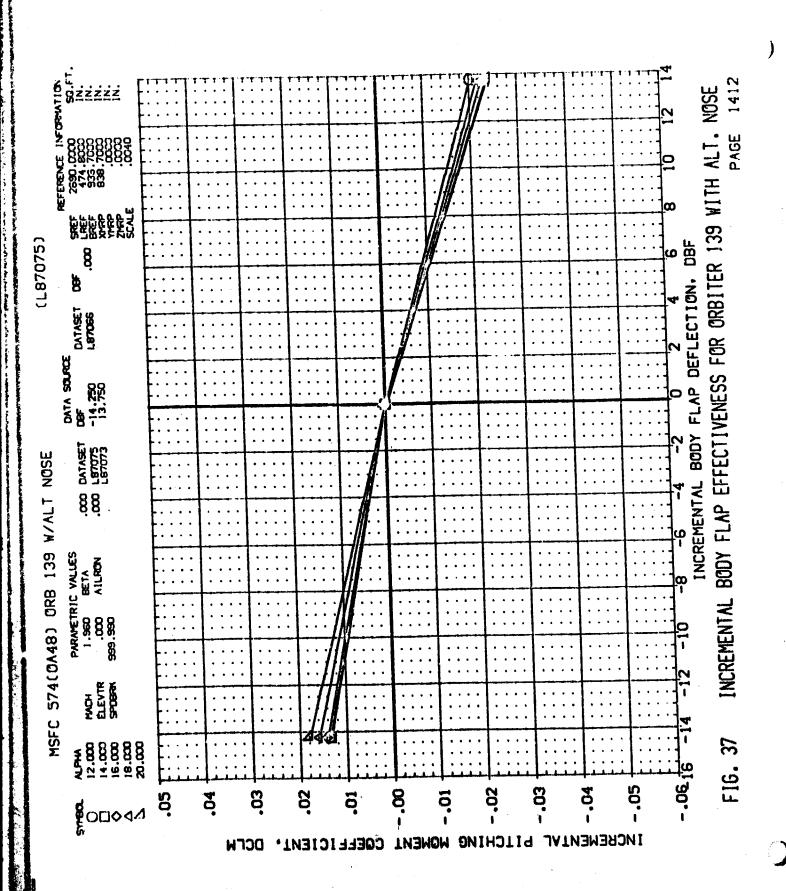




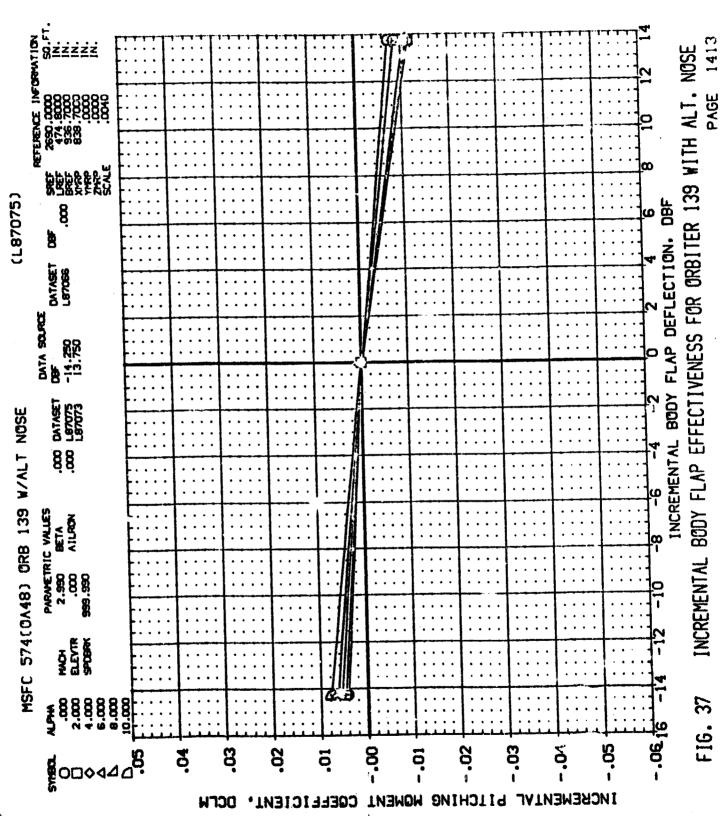


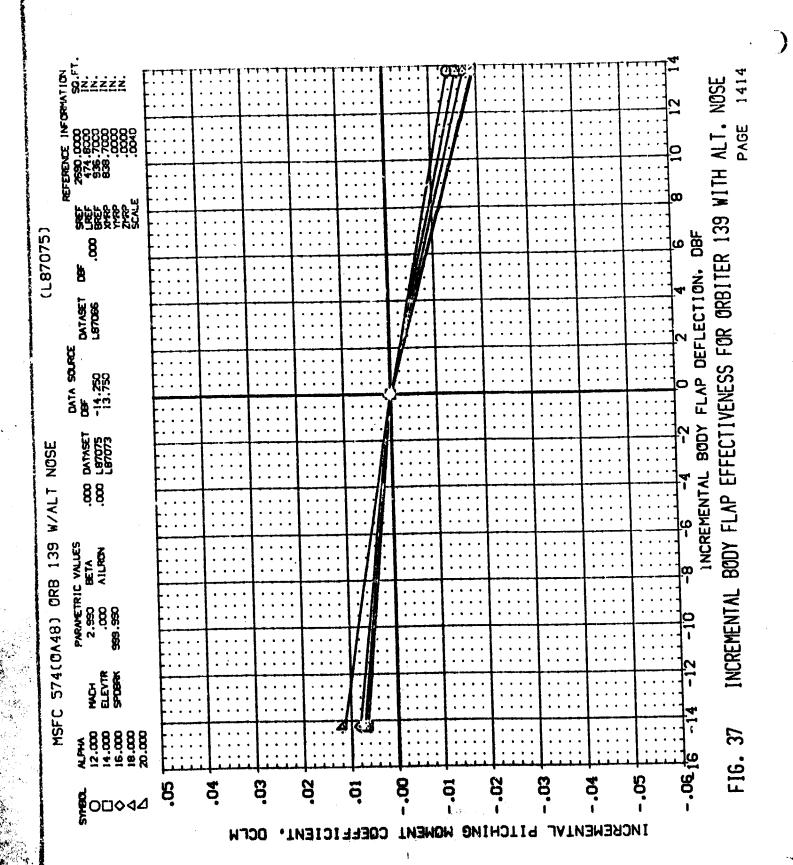
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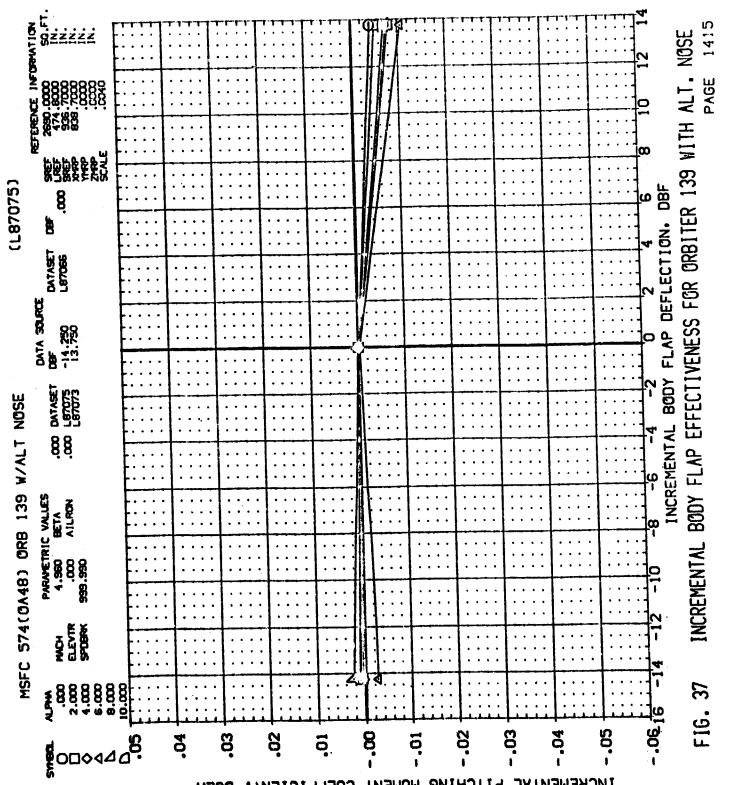




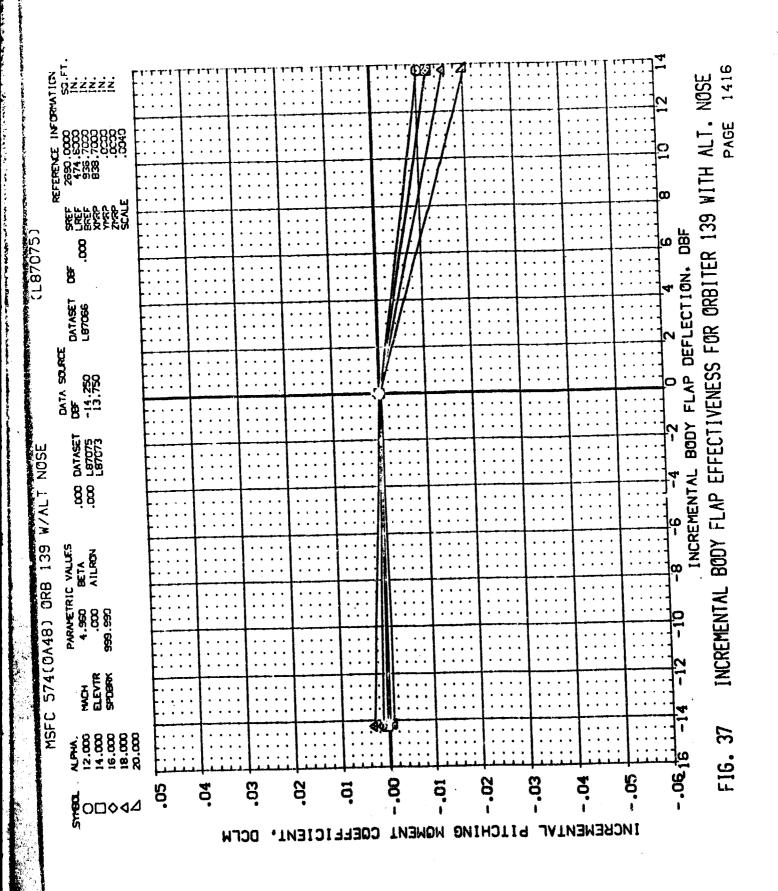




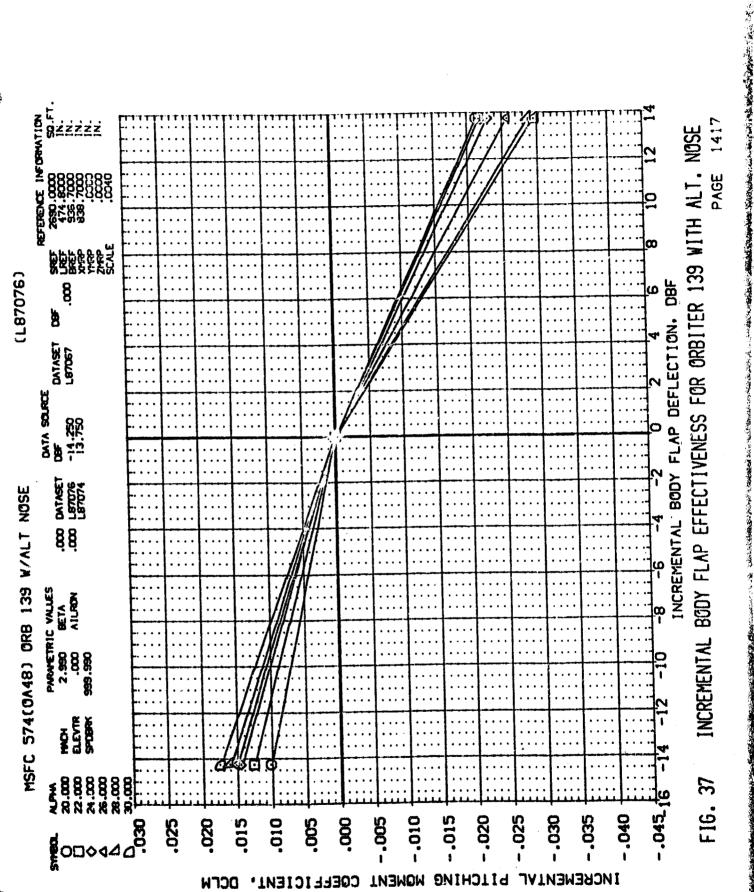




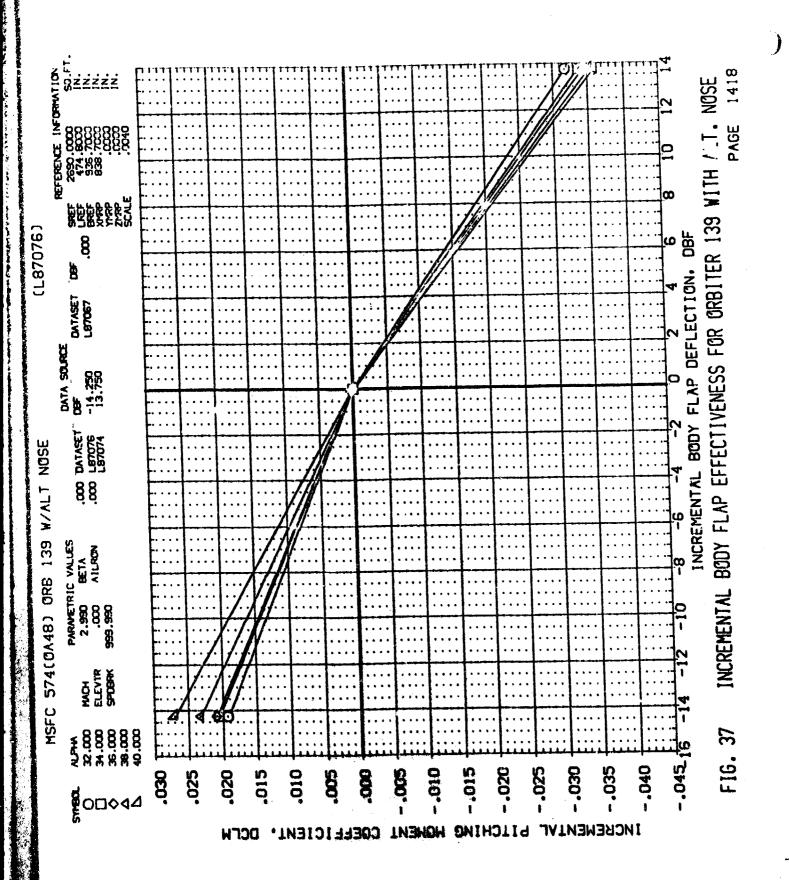


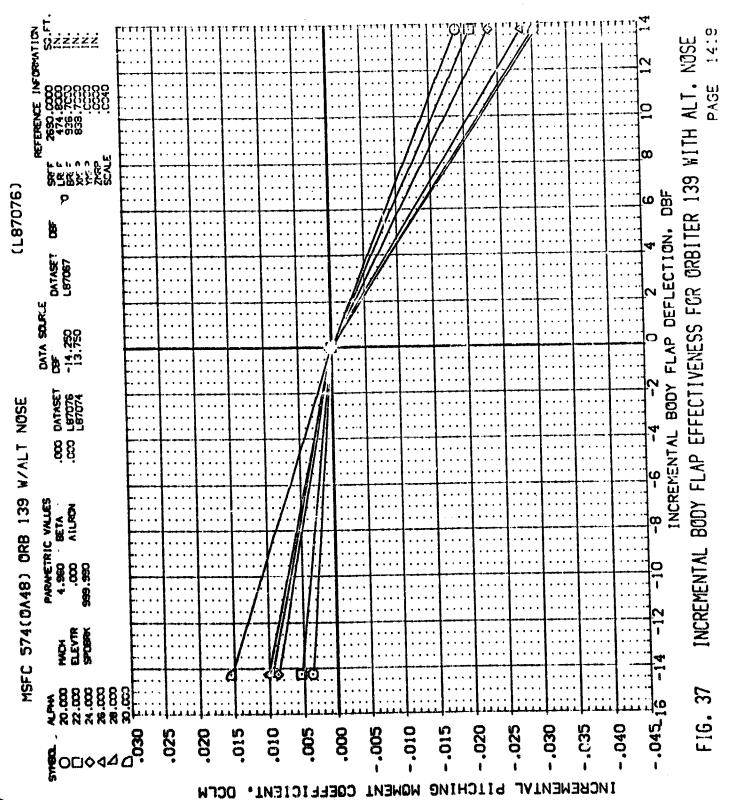


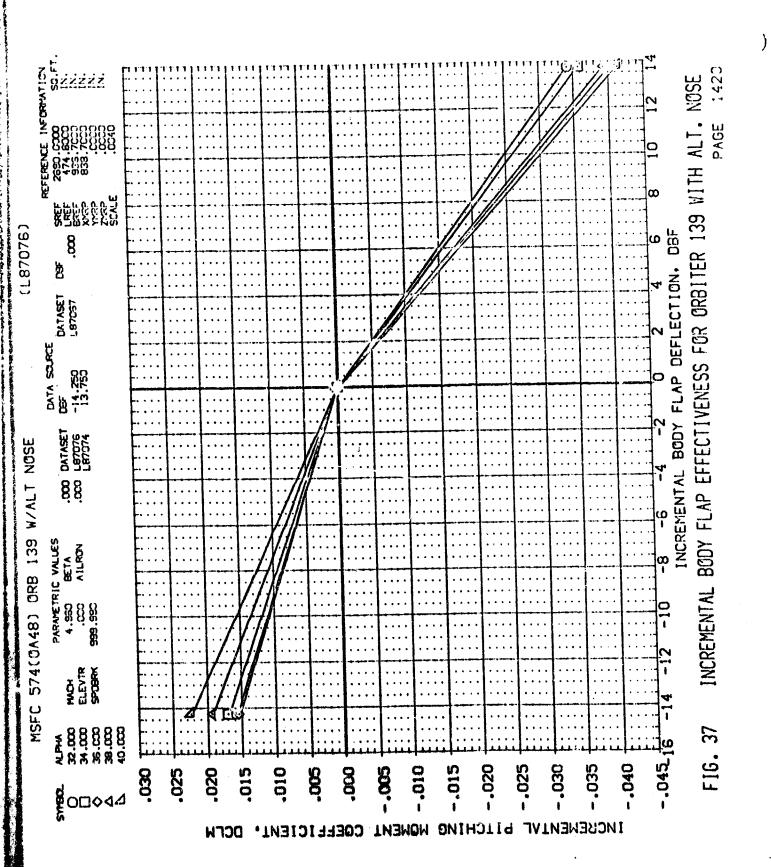




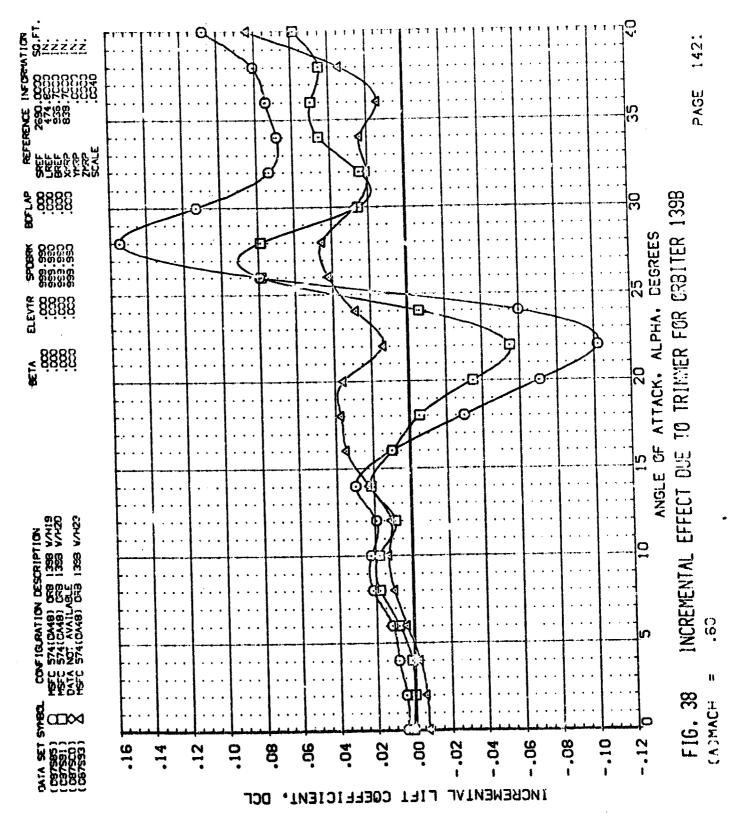
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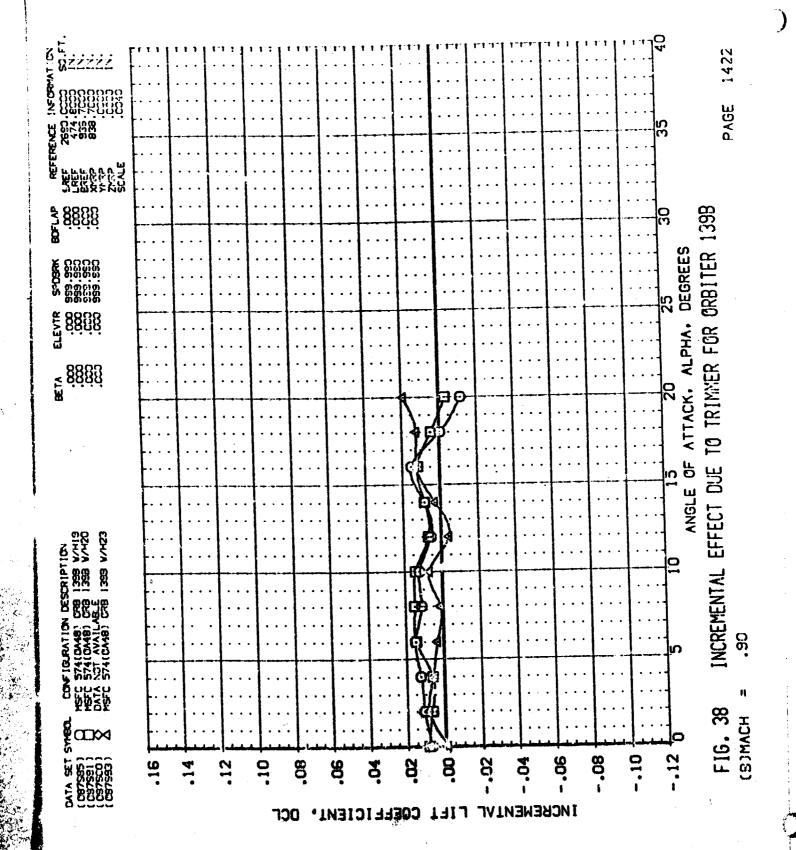


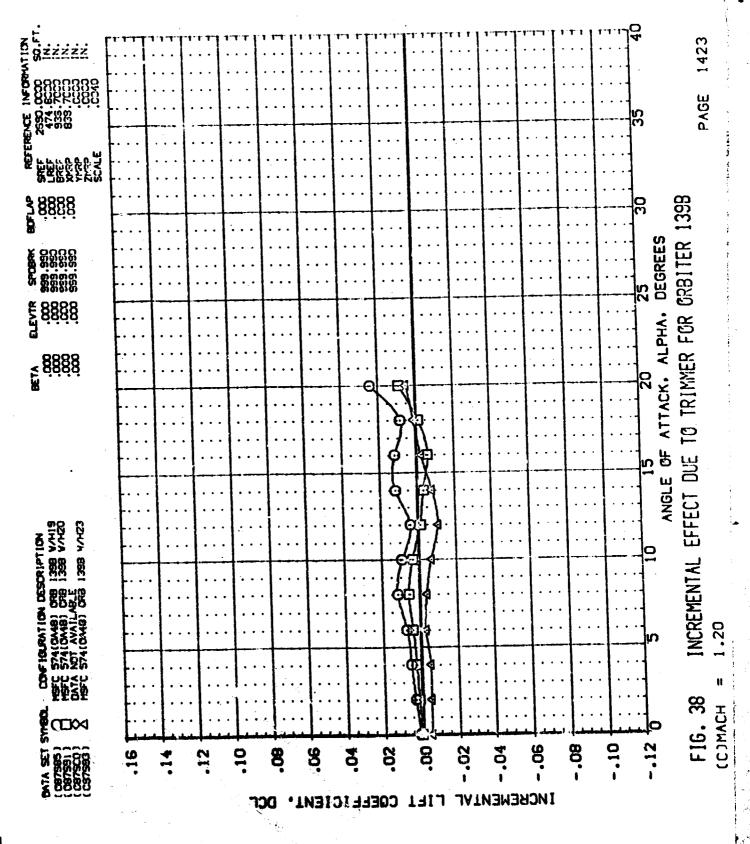


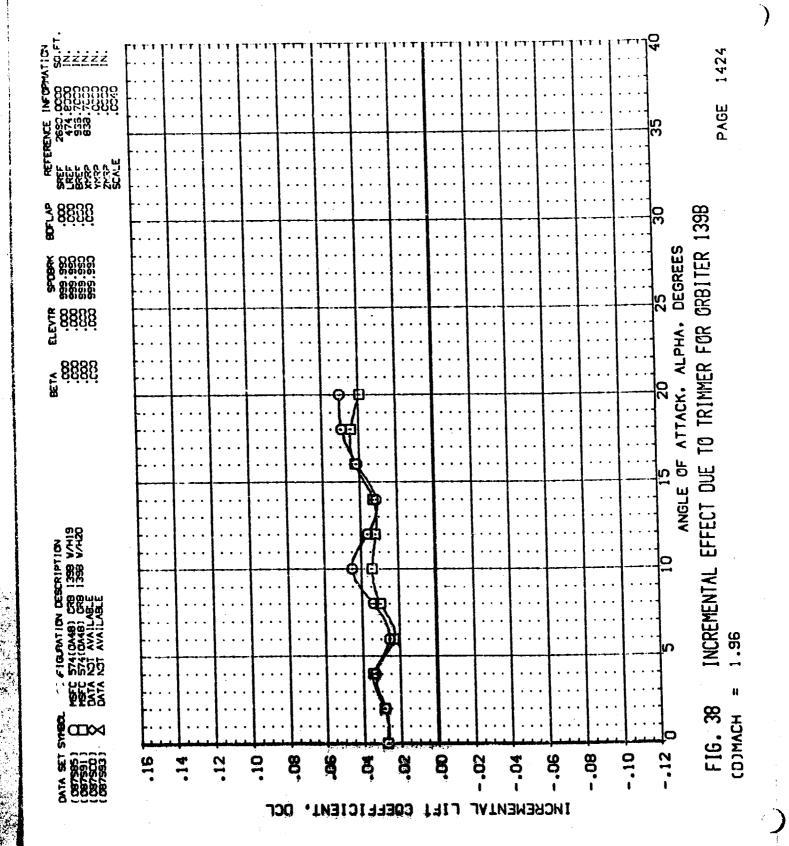






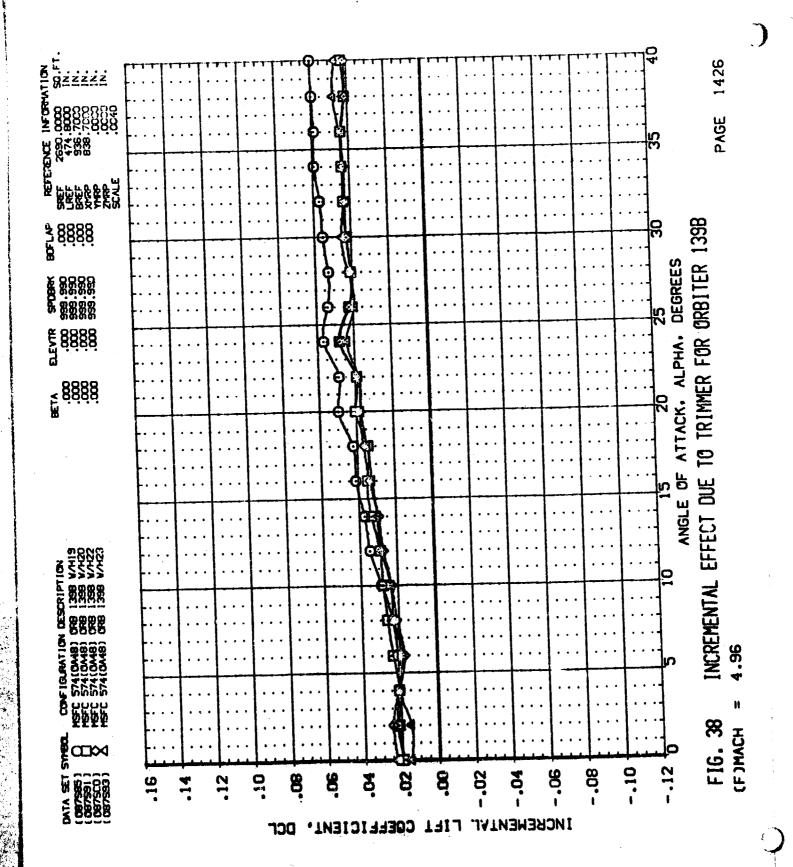




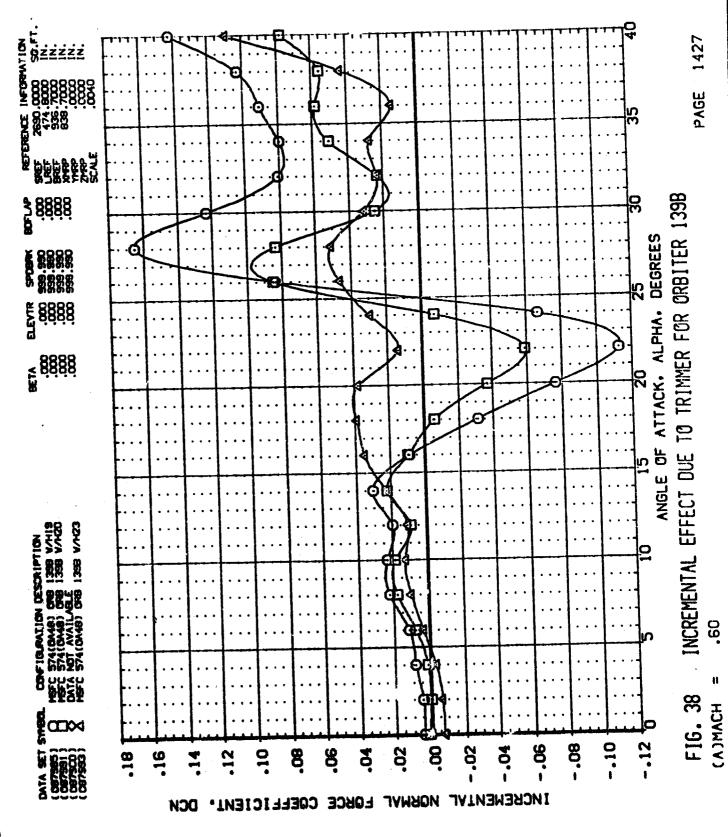


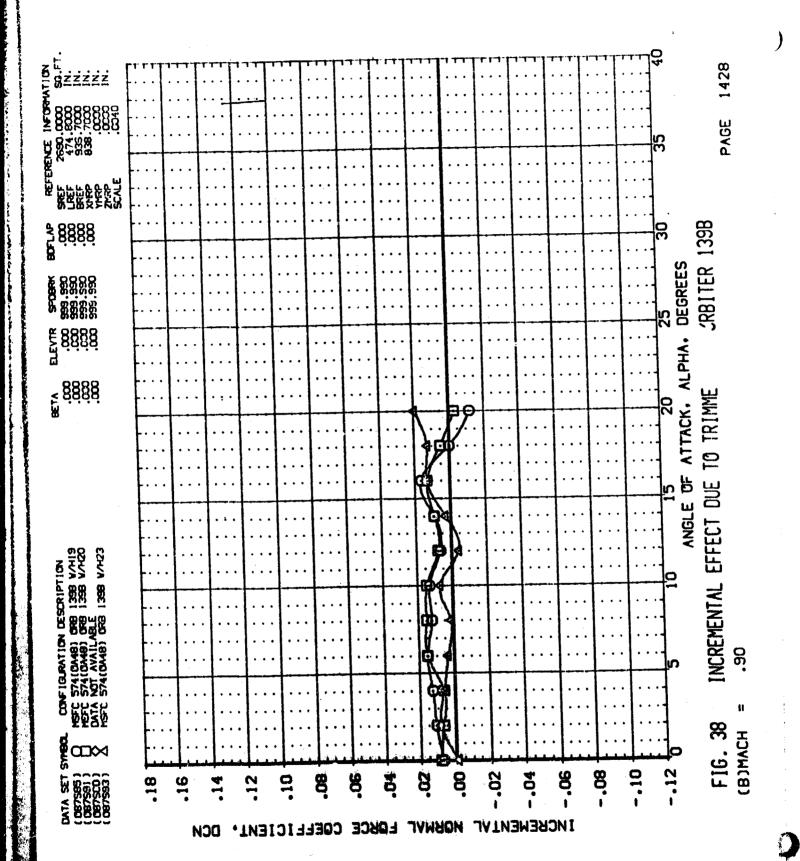


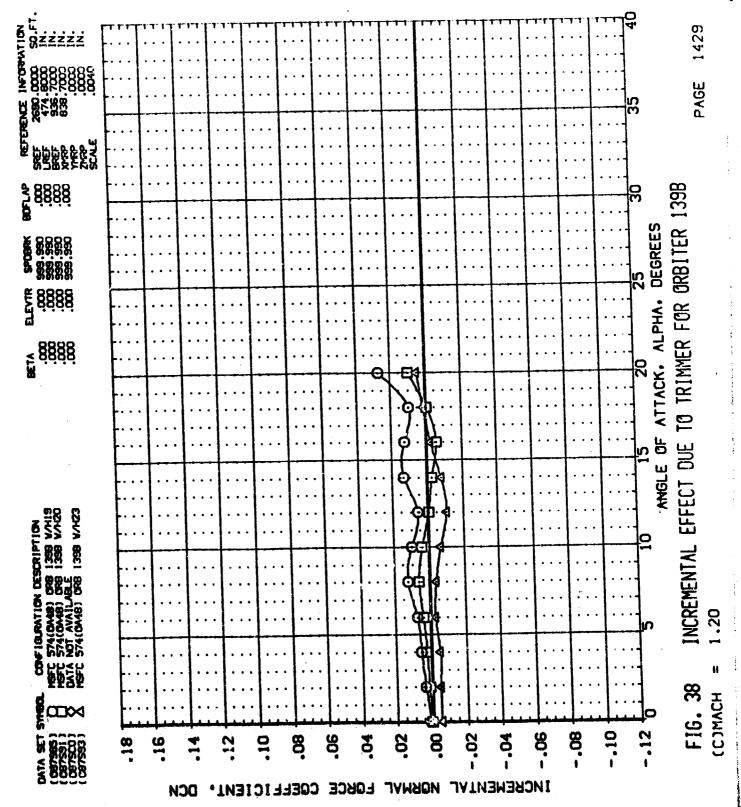
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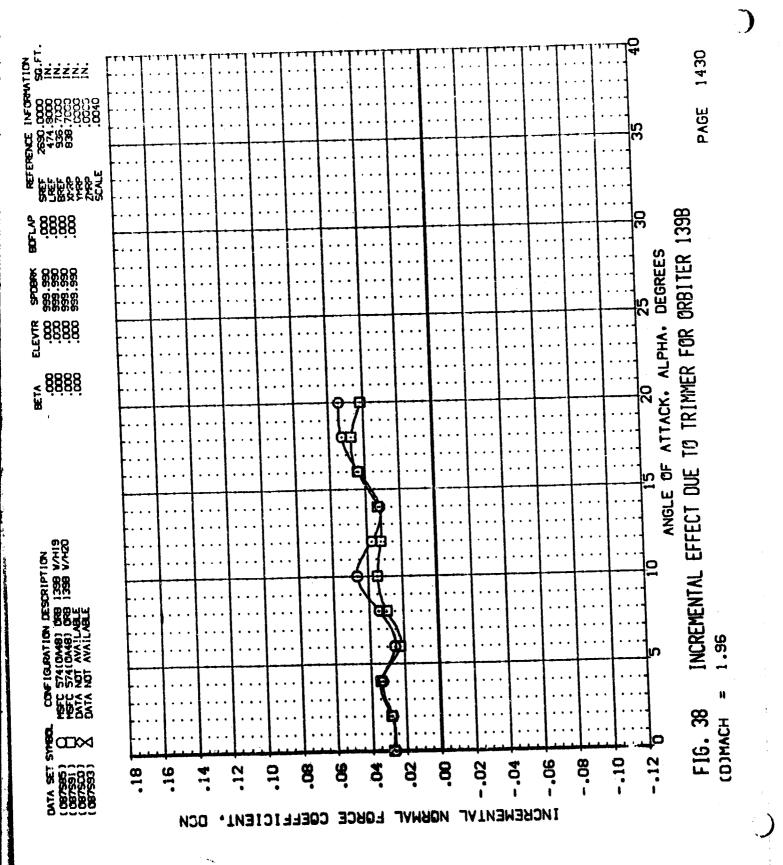


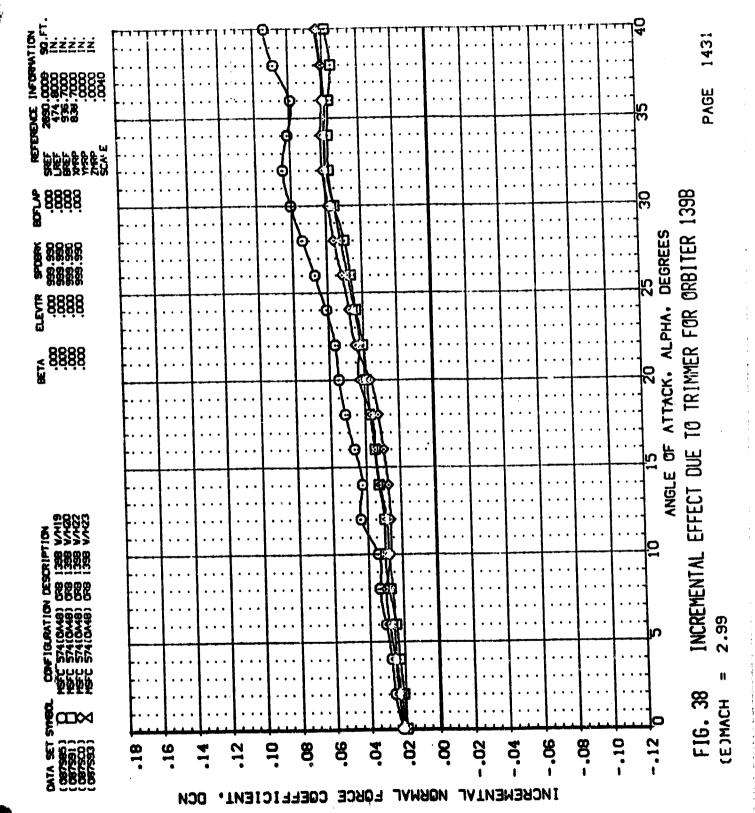
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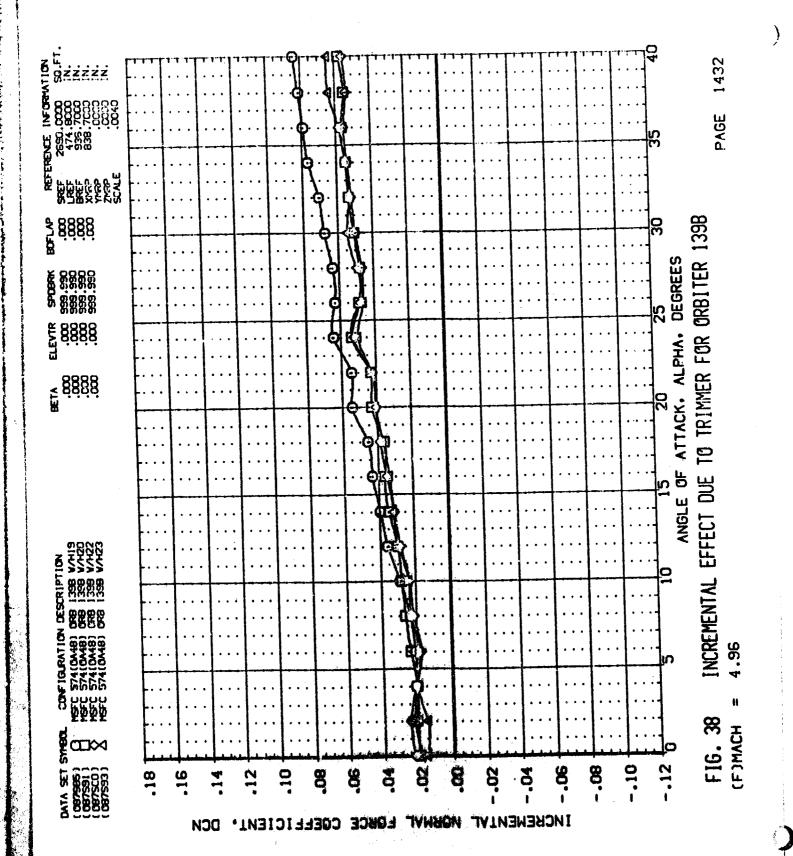


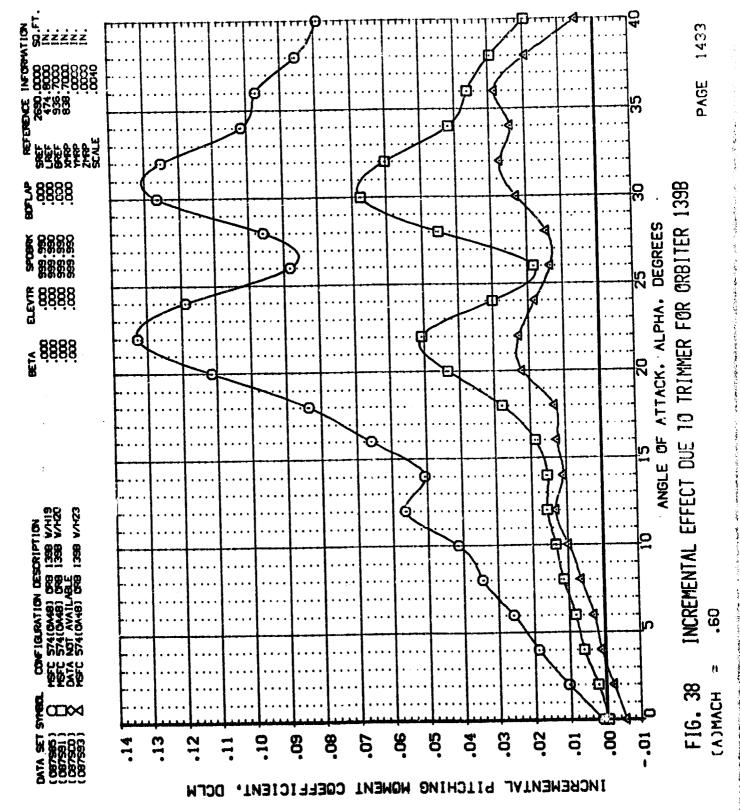


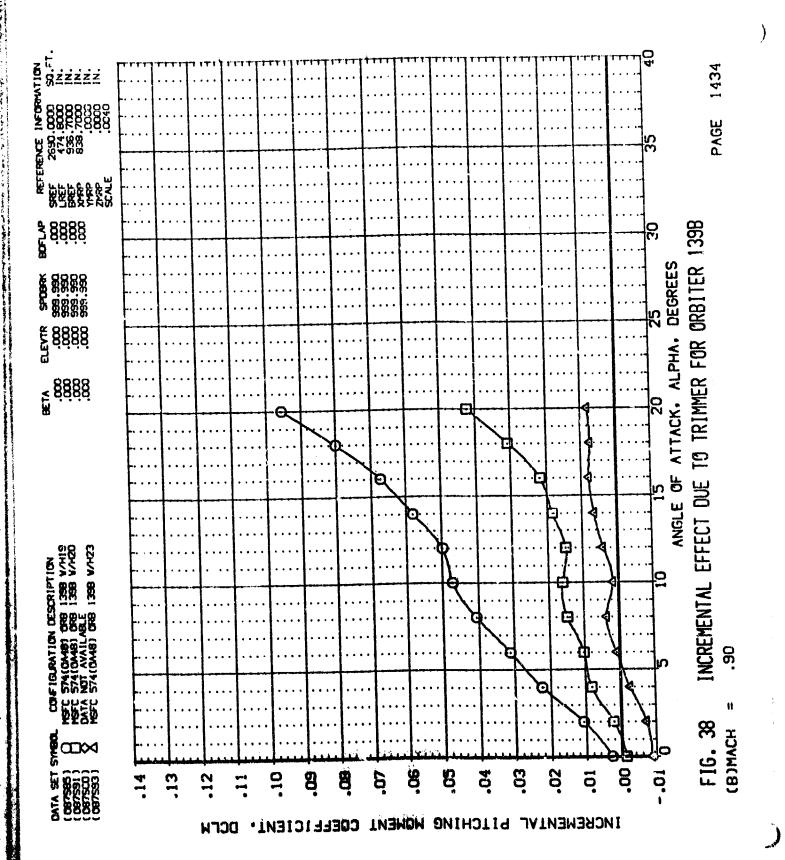


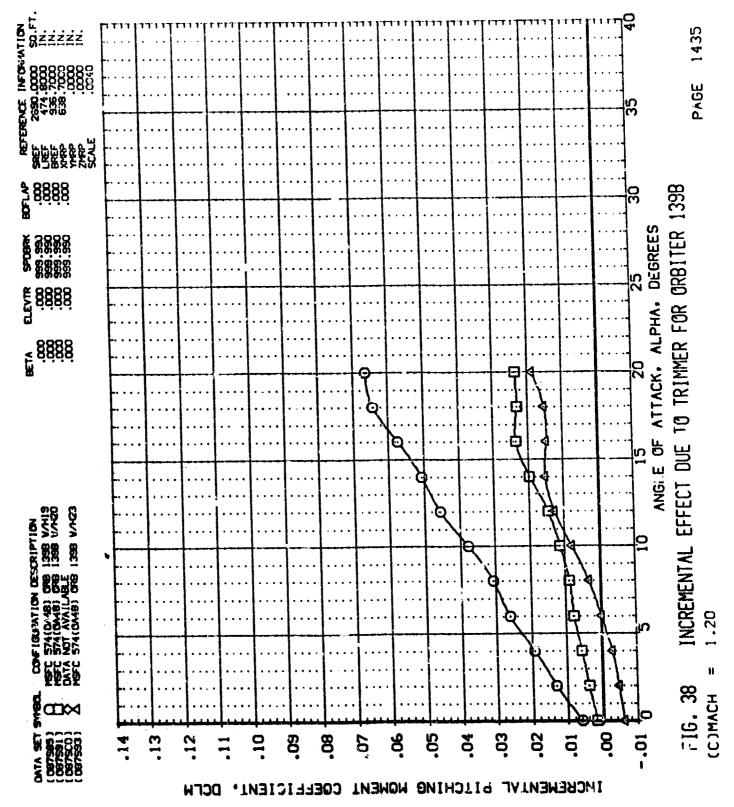




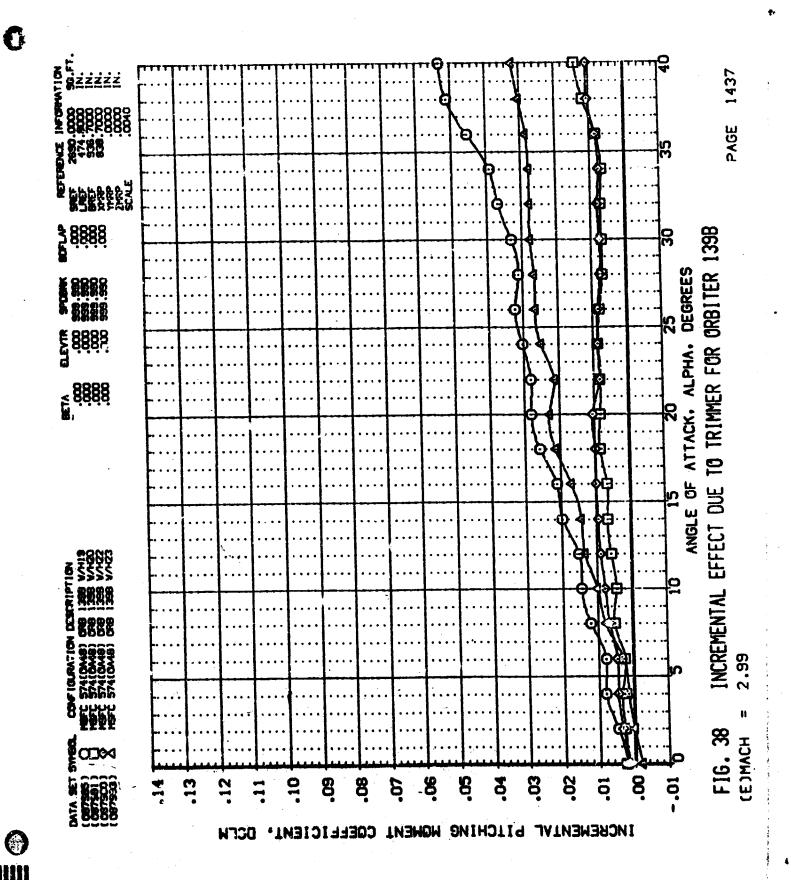


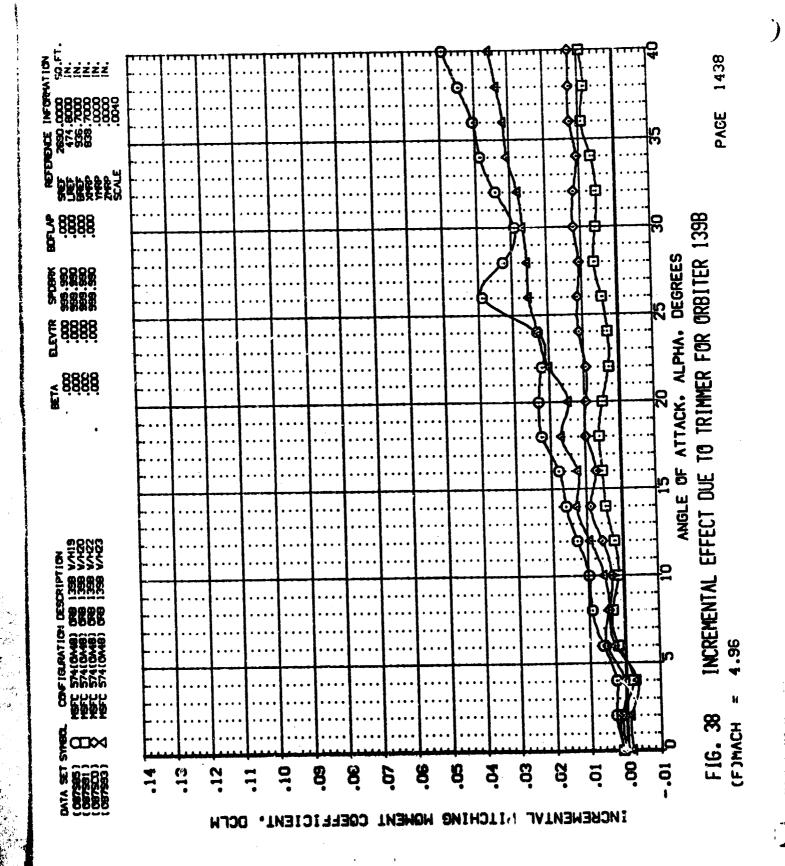


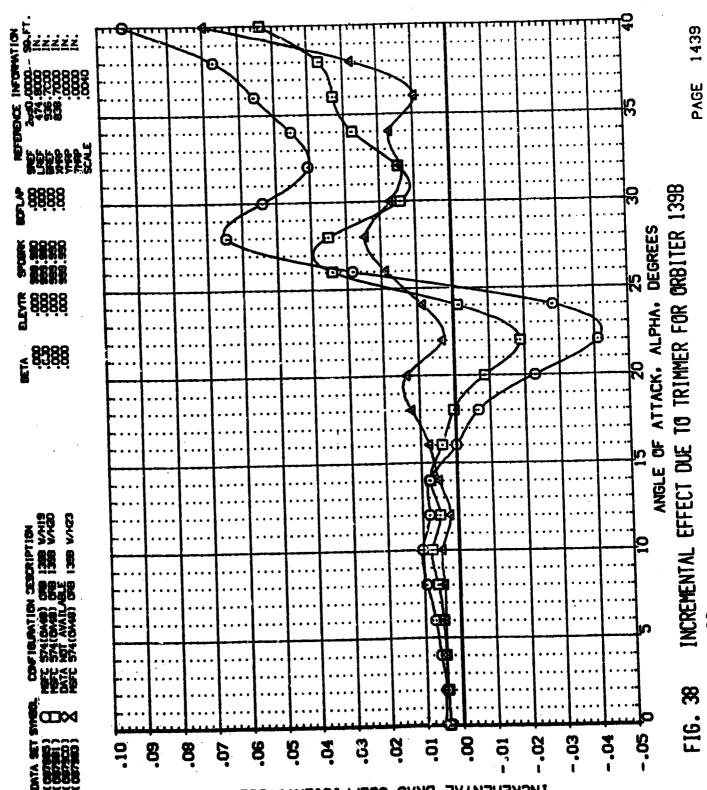




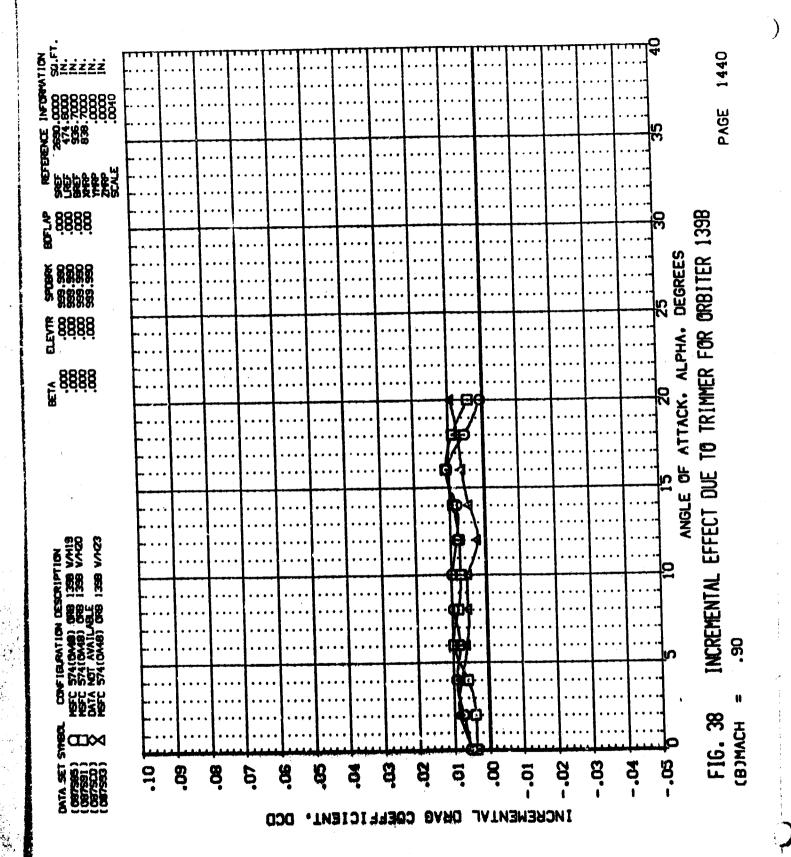
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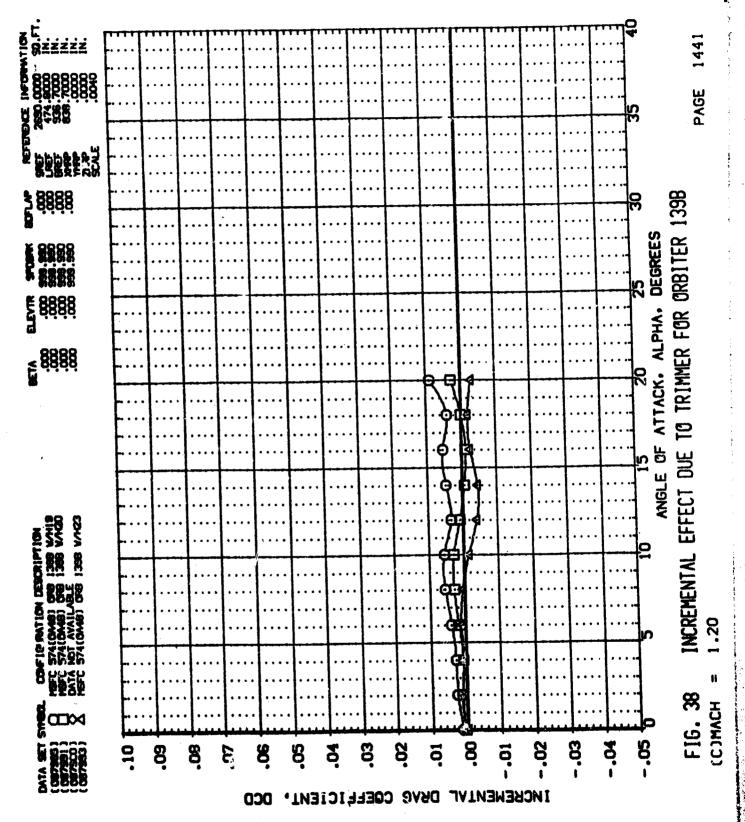


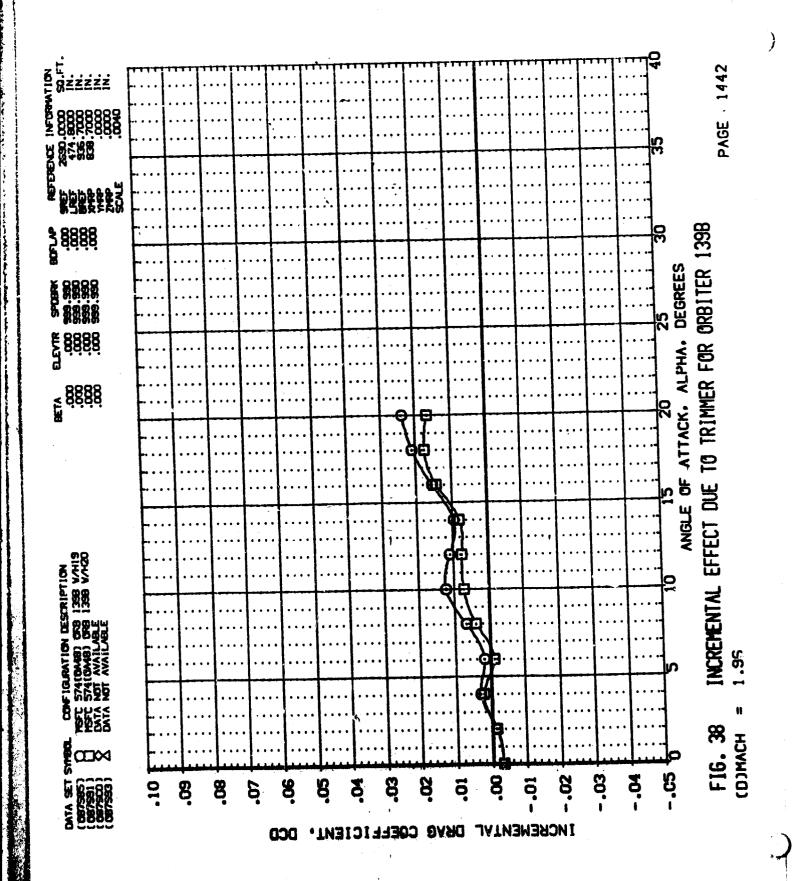


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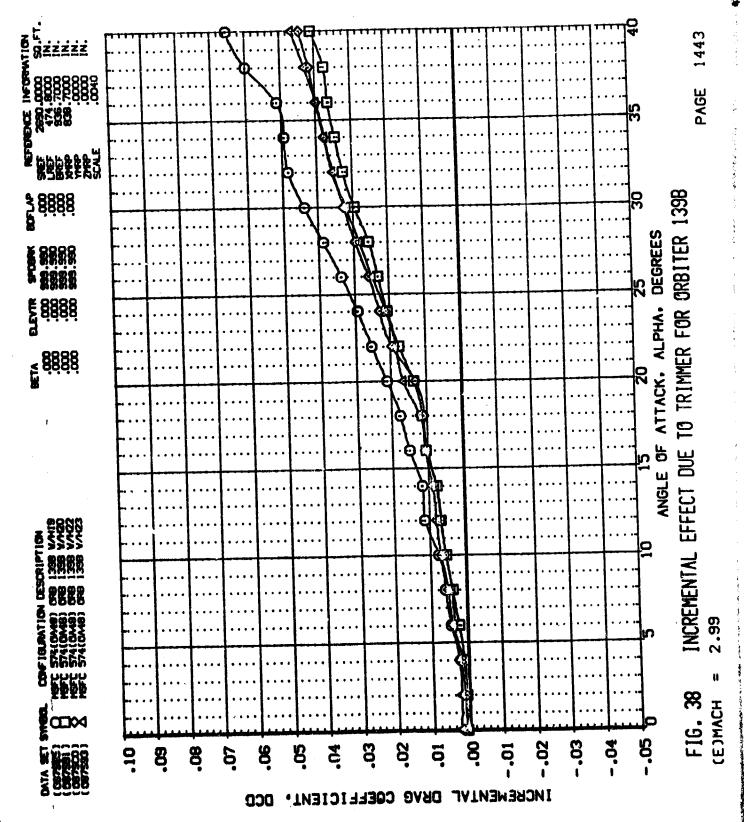
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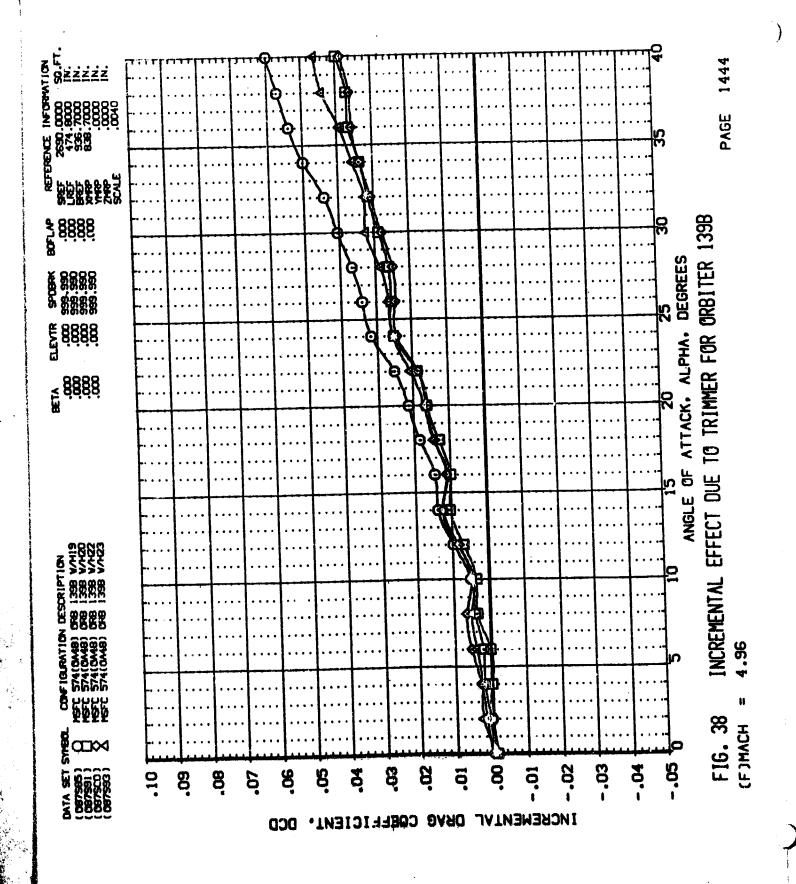


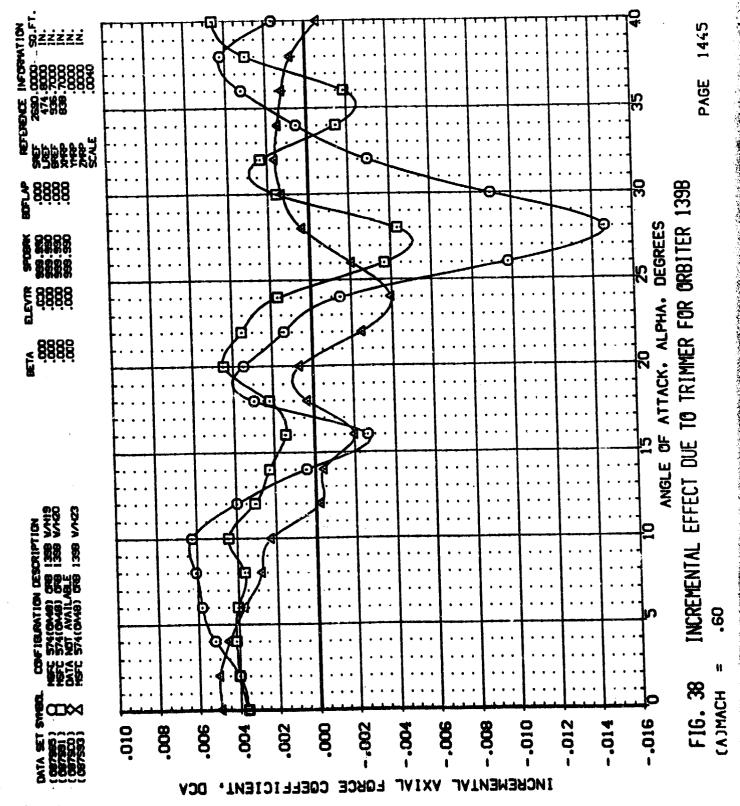


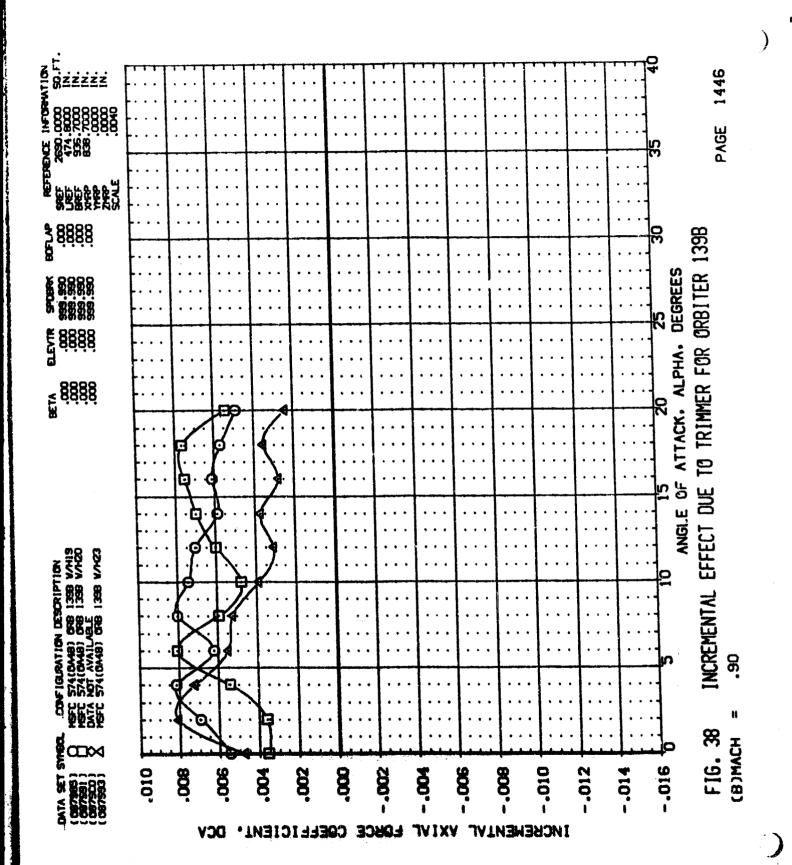
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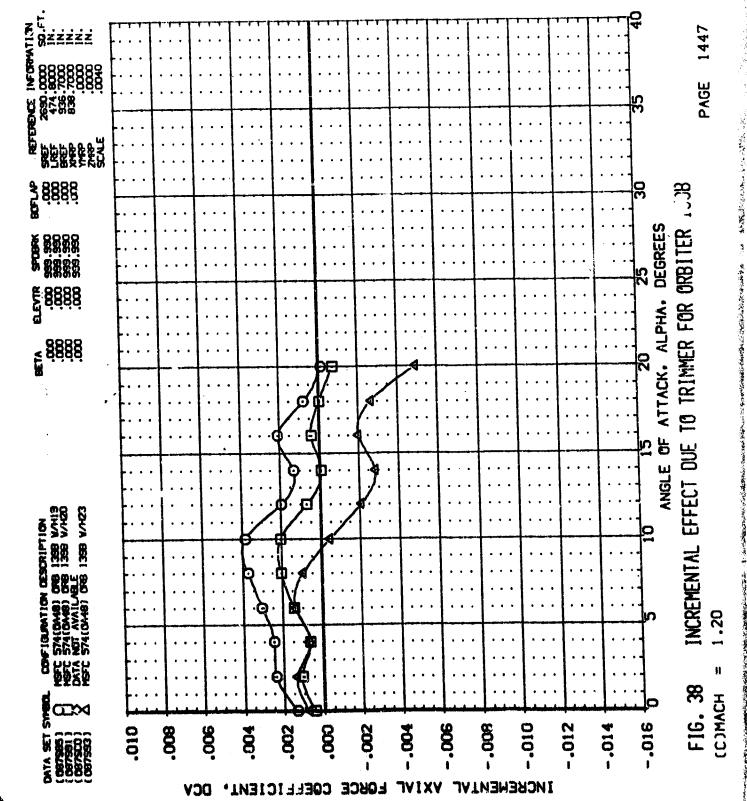
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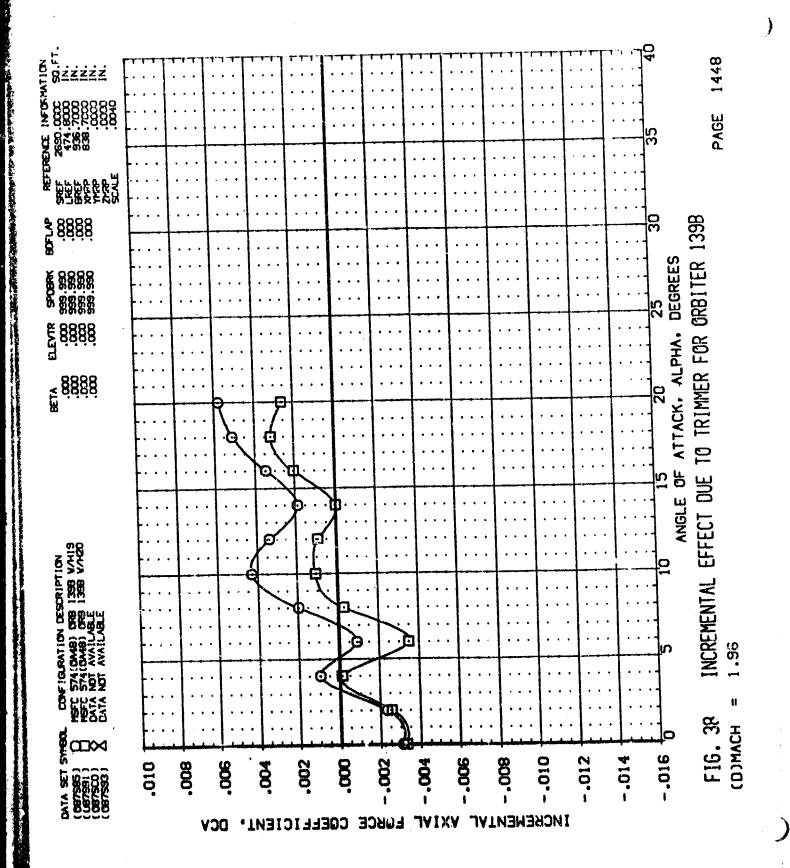


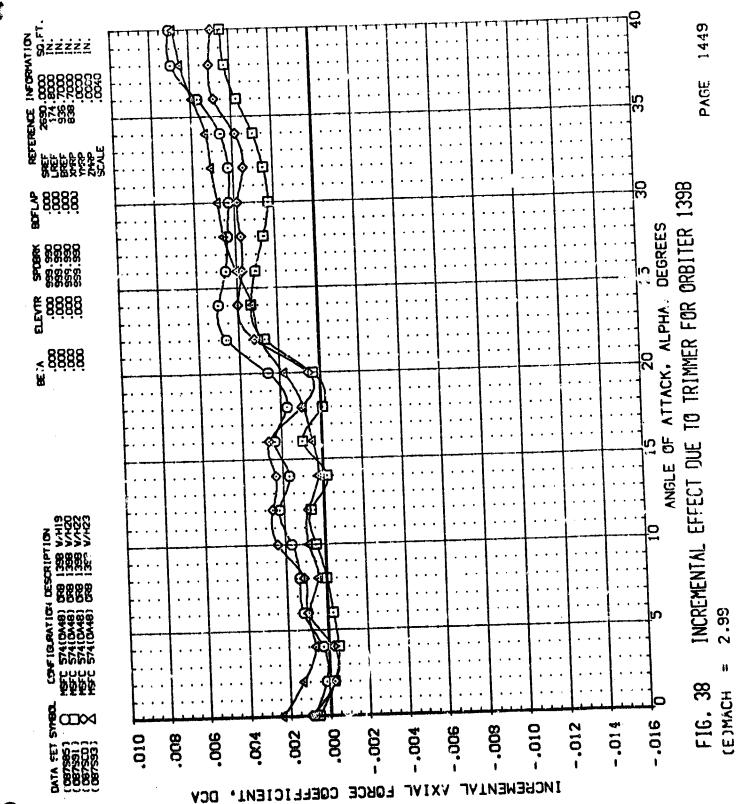


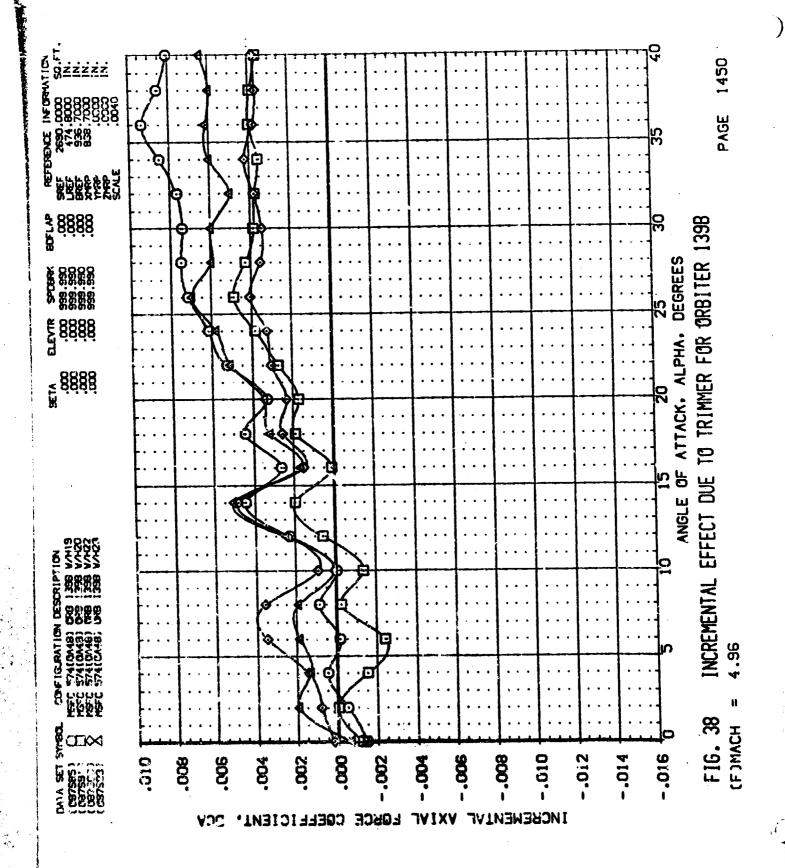


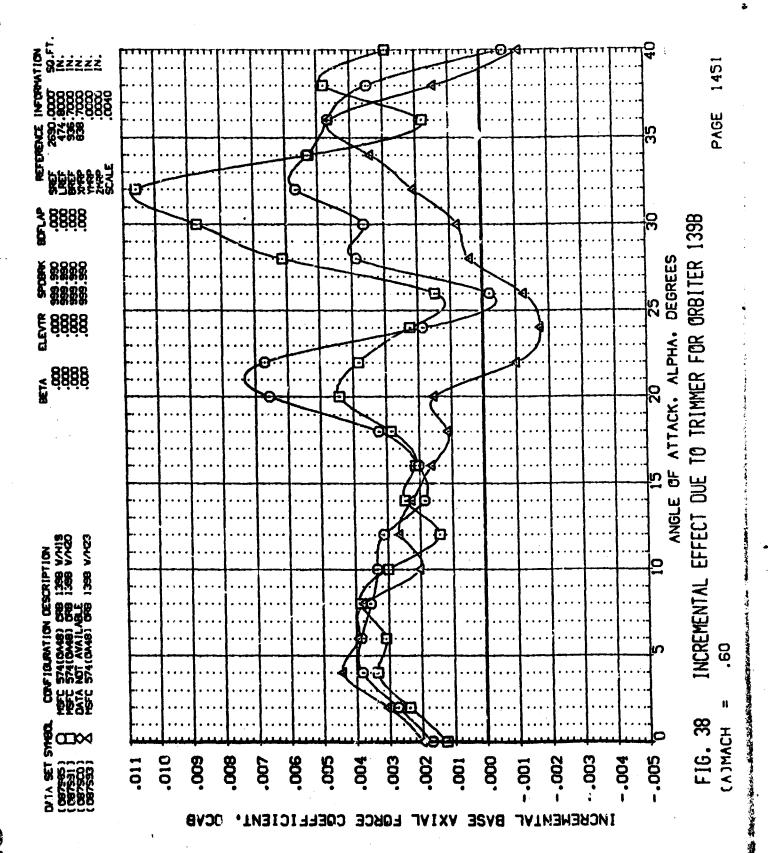


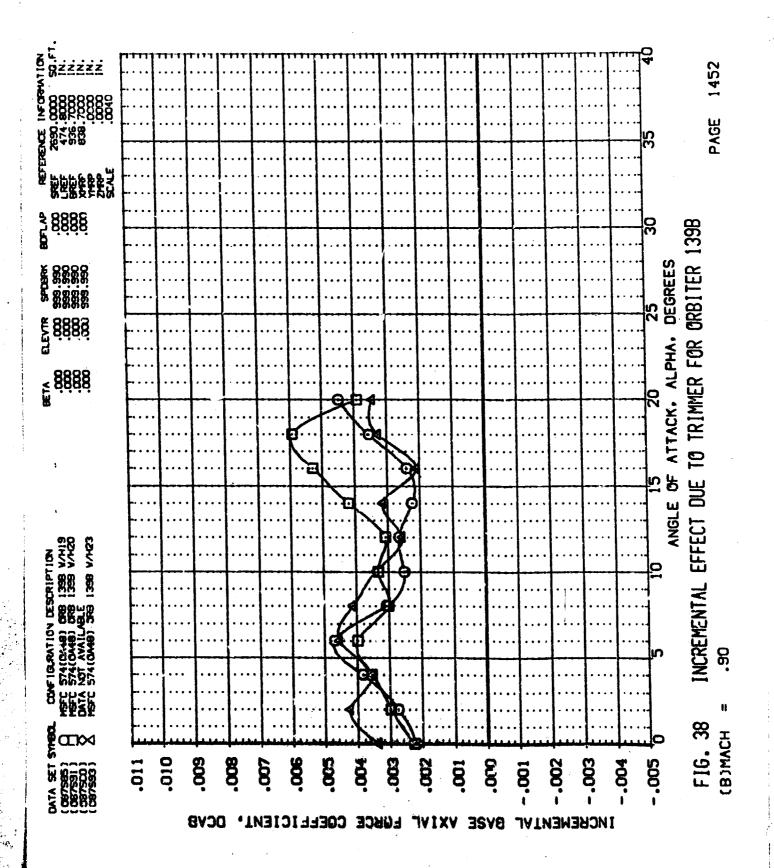


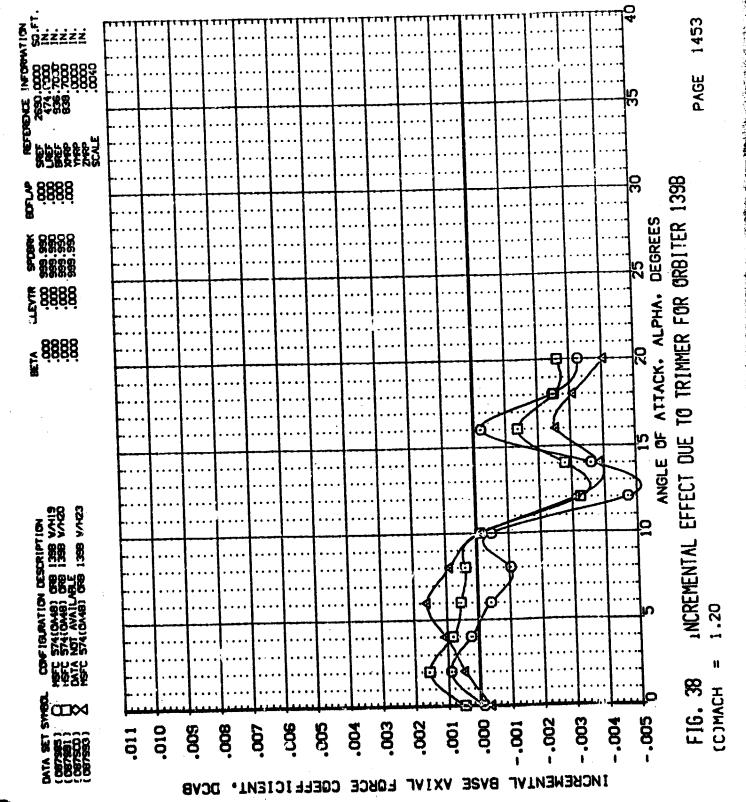


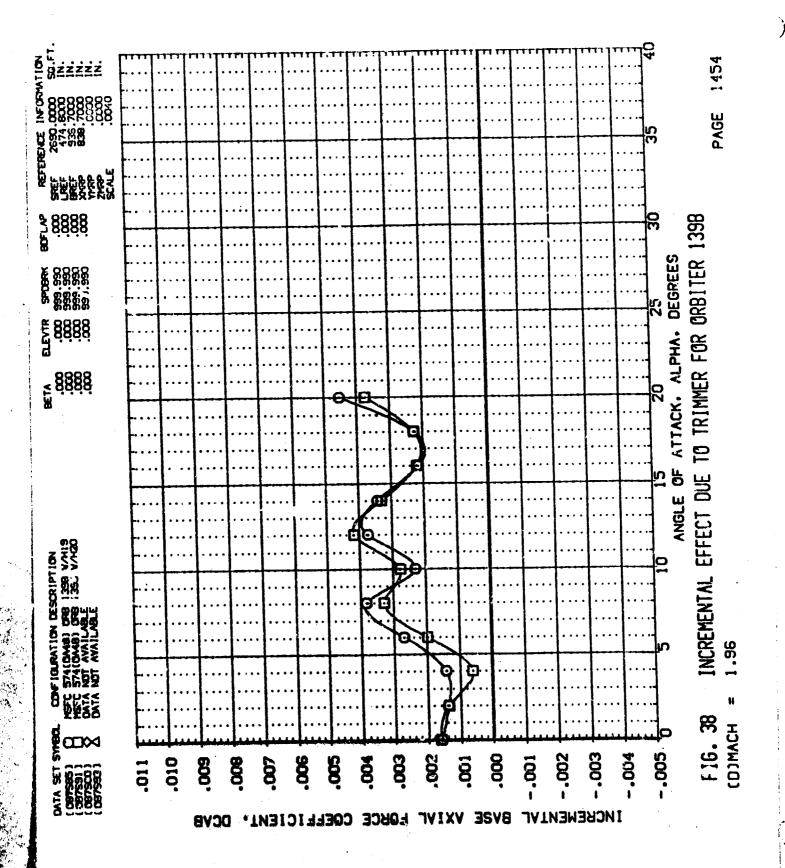




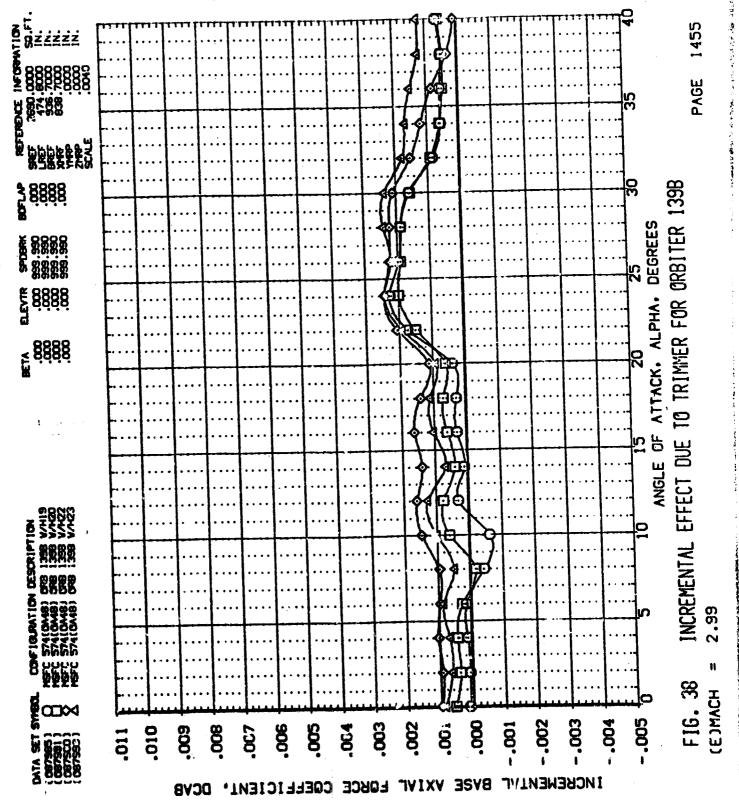


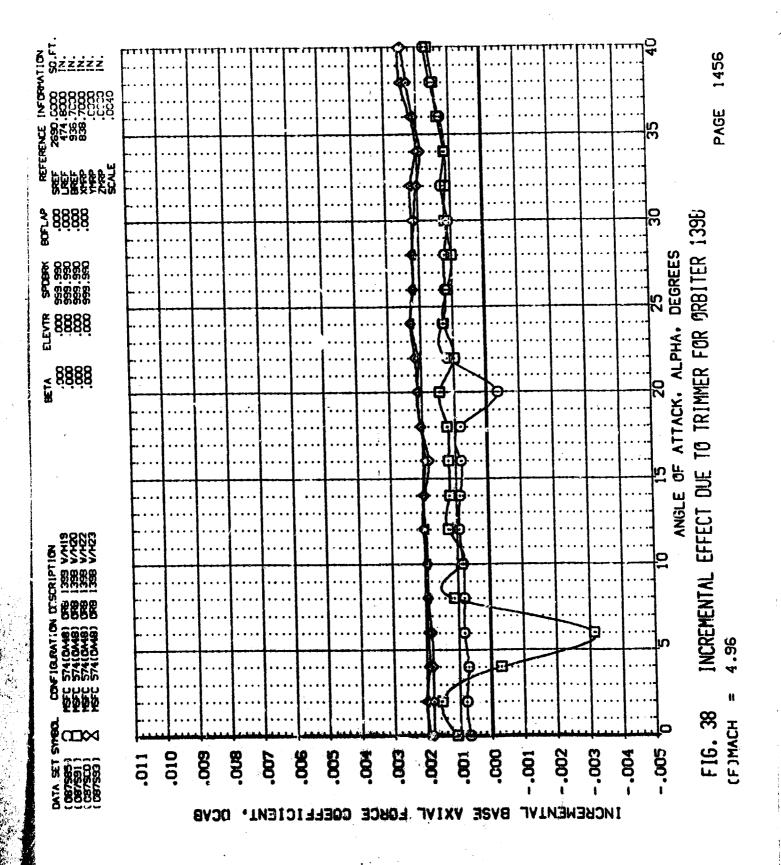




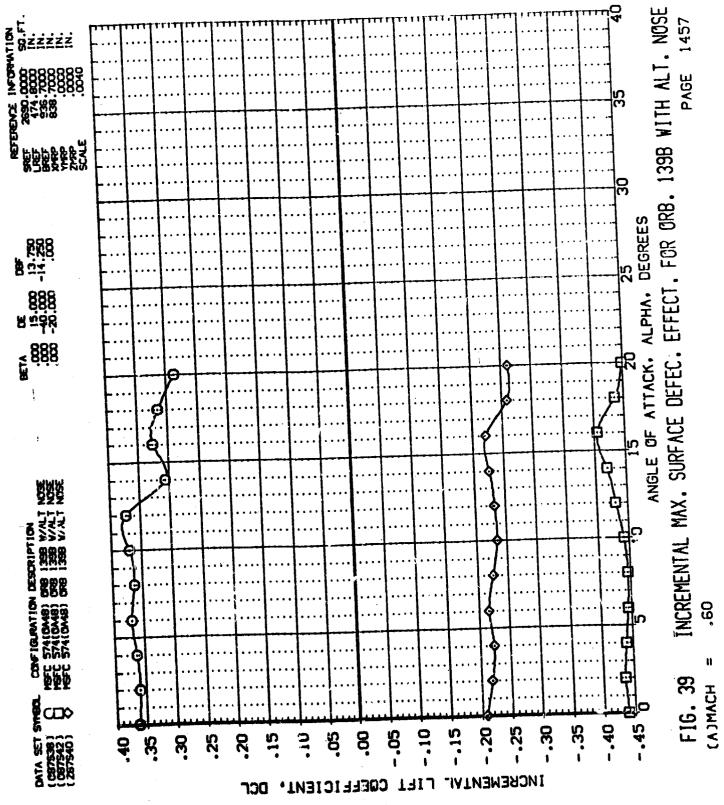


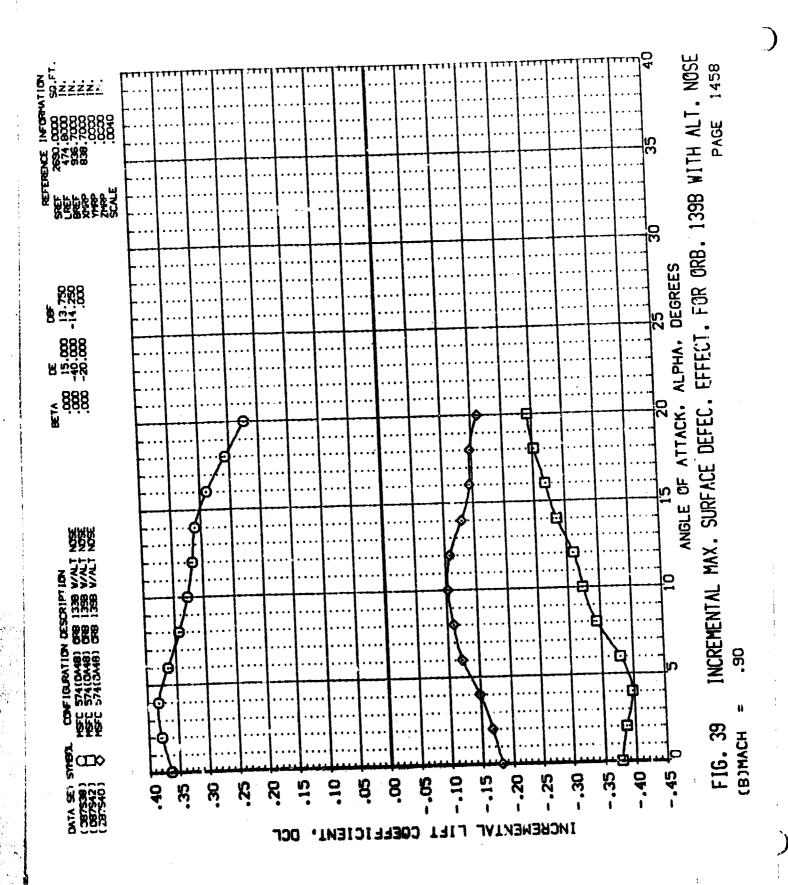


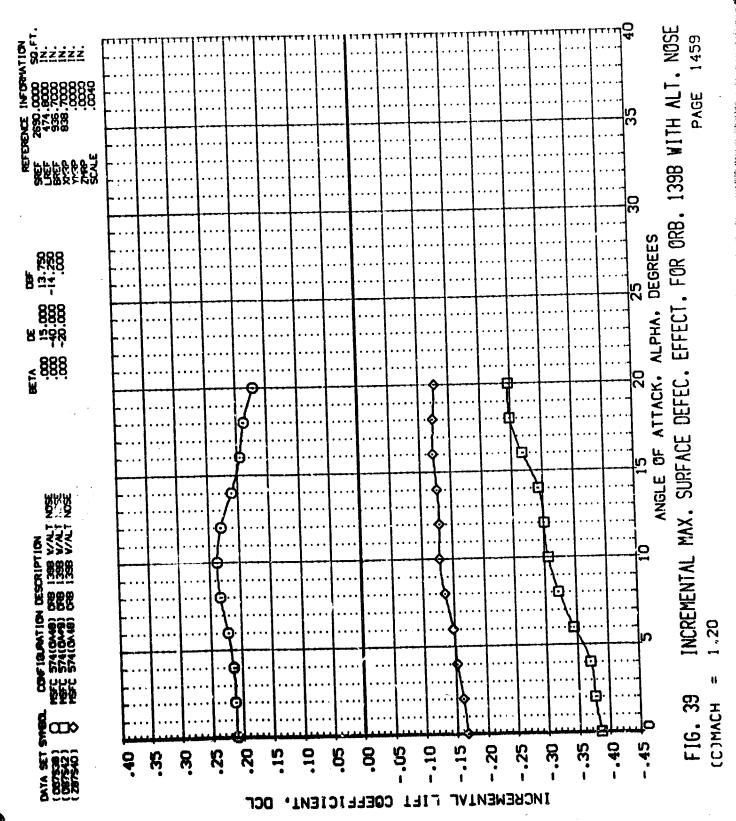


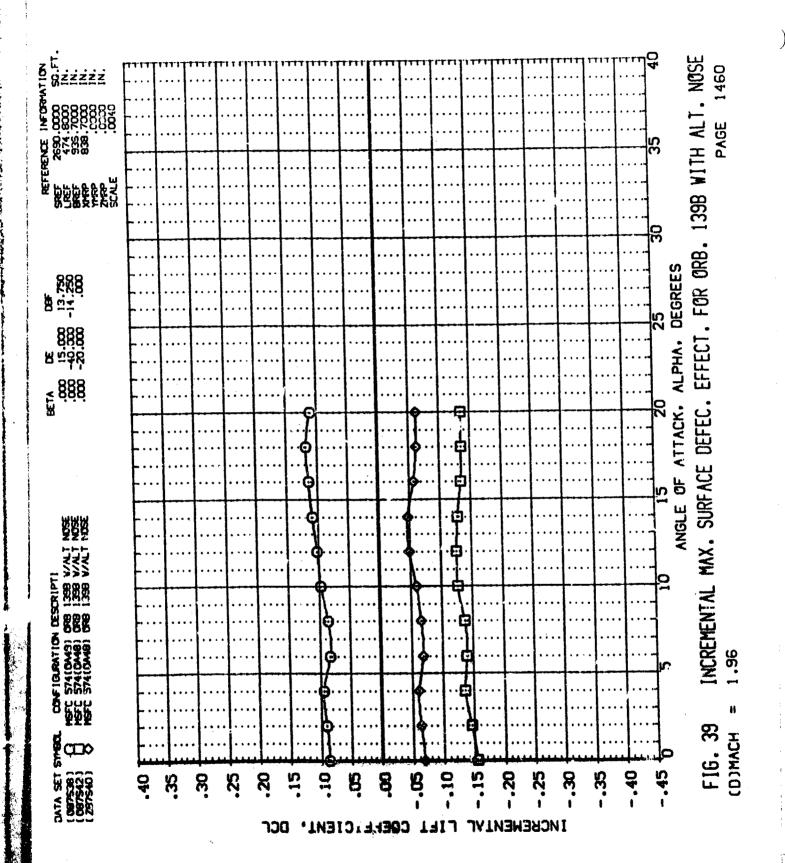










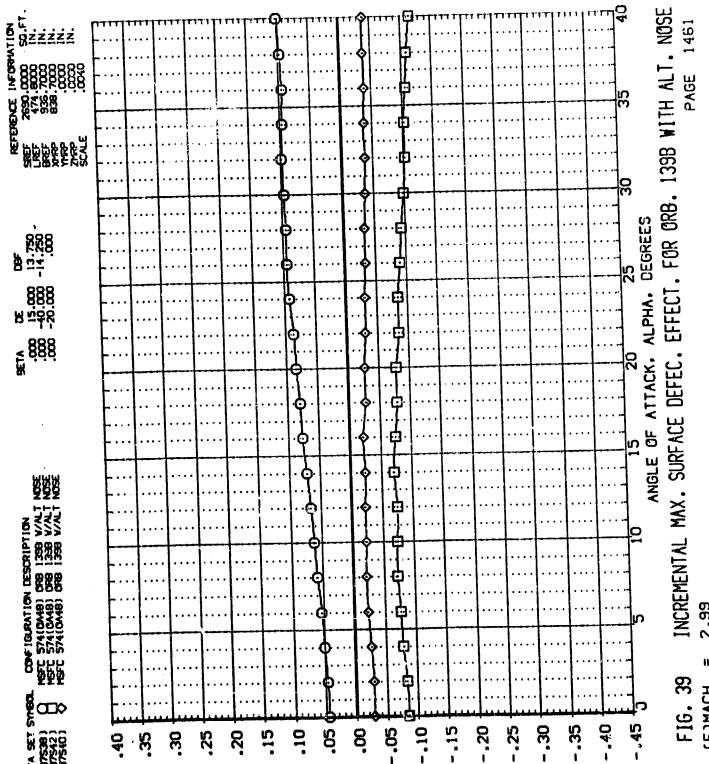


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ONE 1338 V/ALT NOSE MSTC 574 (DAMB) OF HGFC 574 (DAMB) OF HGFC 574 (DAMB) OF HGFC 574 (DAMB) OF ğ œ 6.3 -.15 -.20 DATA SET S (087538) (087542) (287540) Š 8 -.05 52 INCREMENTAL LIFT COEFFICIENT.

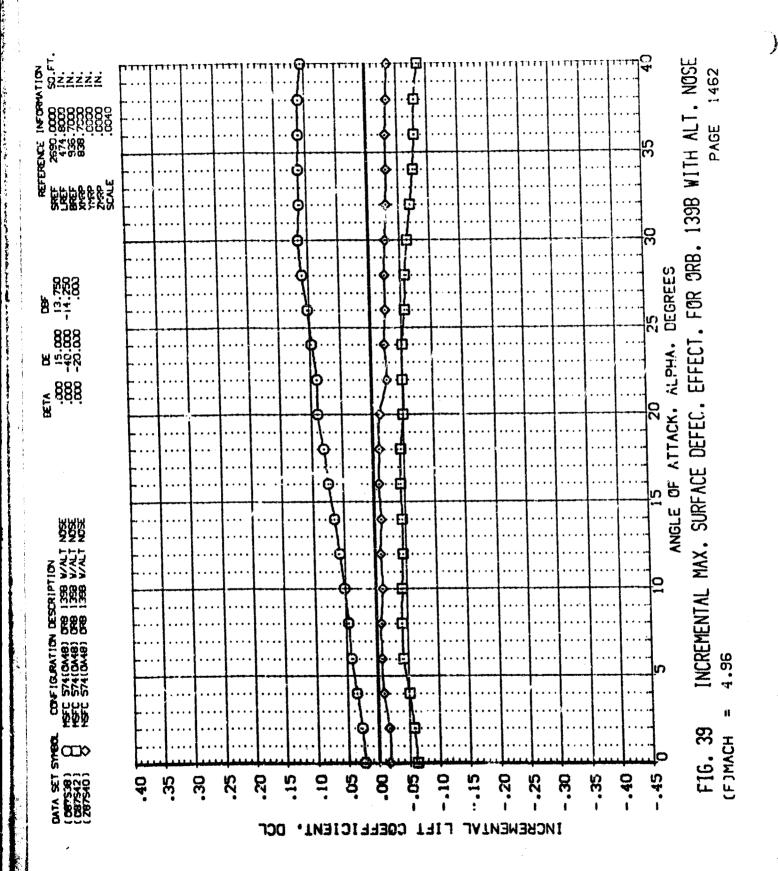


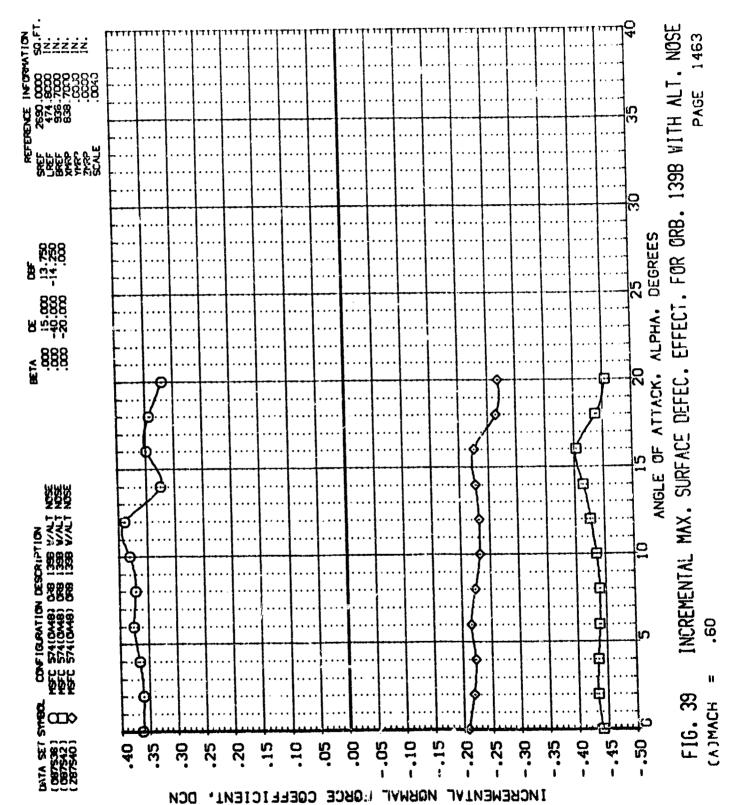
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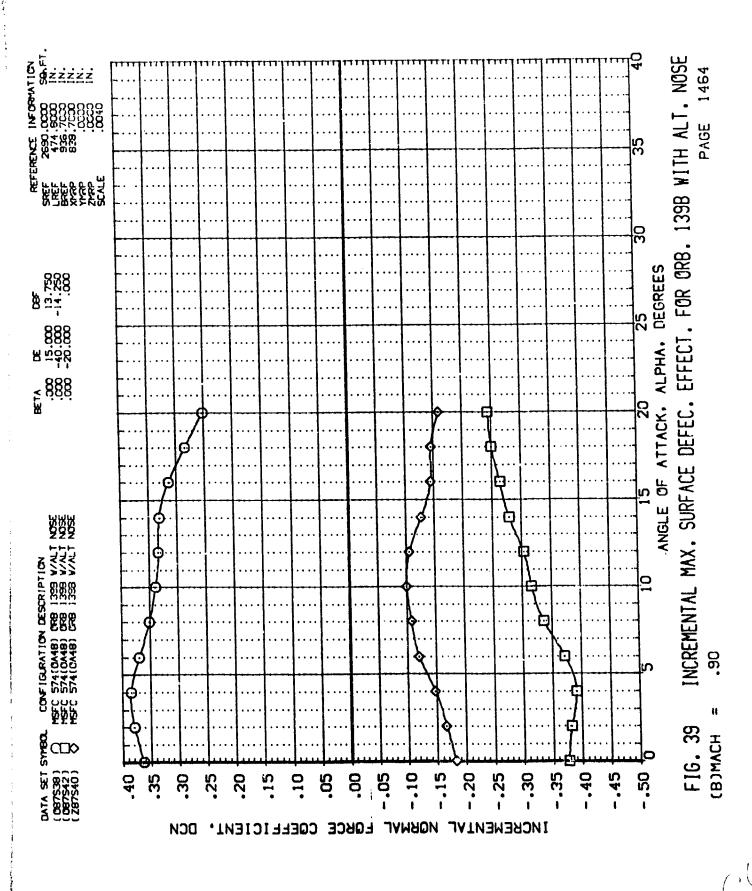
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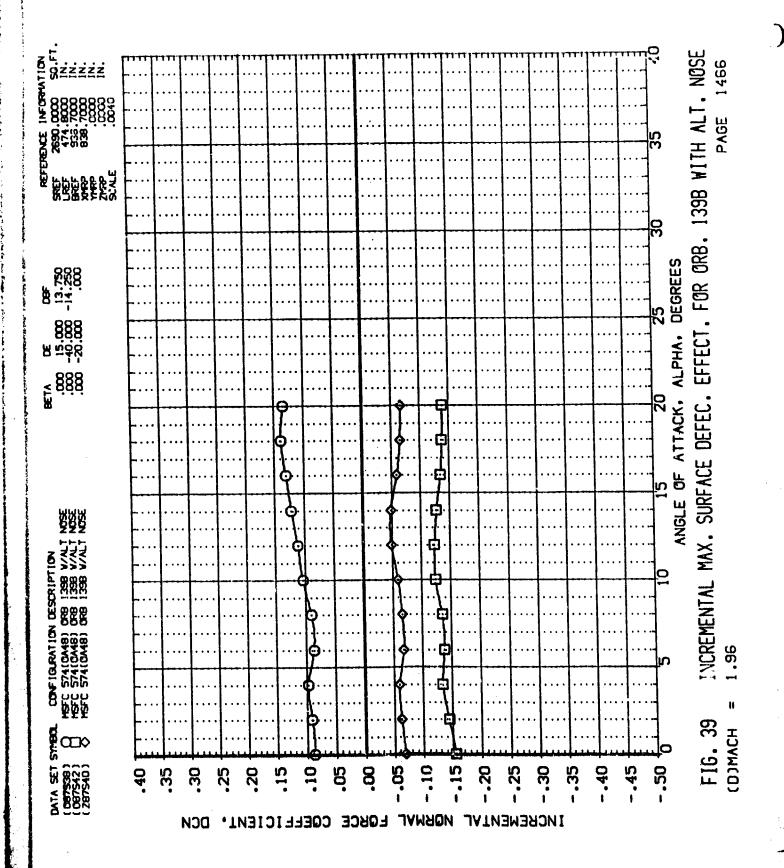




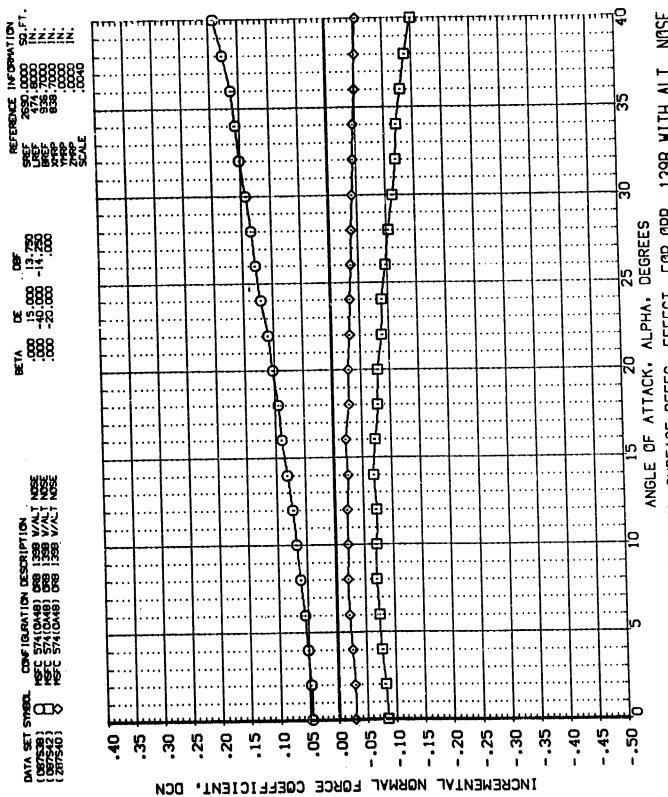
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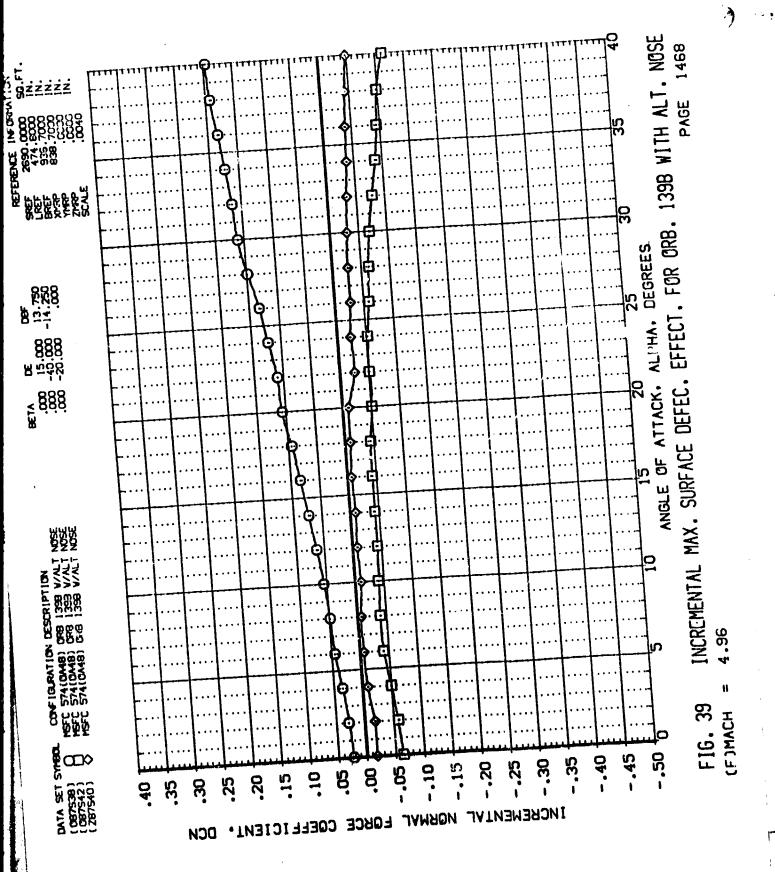
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38EF 2590.0000 SO.FT.
REF 474.8000 IN.
REF 936.7000 IN.
CALE ..0040 INCREMENTAL MAX. SURFACE DEFEC. EFFECT. FOR ORB. 1398 WITH ALT. NOSE 1.20 23438644 23438644 15 20 25 ANGLE OF ATTACK, ALPHA, DEGREES 85.5. 25.25. 25.25. 25.00. 유 교수성 888 · # 8888 1. . . CONFIGURATION DESCRIPTION
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MSTC 574(DAMB) 578 1338 V/ALT NOSE
MSTC 574(DAMB) 578 1338 V/ALT NOSE F16. 39 (C) MACH DATA SET SMBQ.
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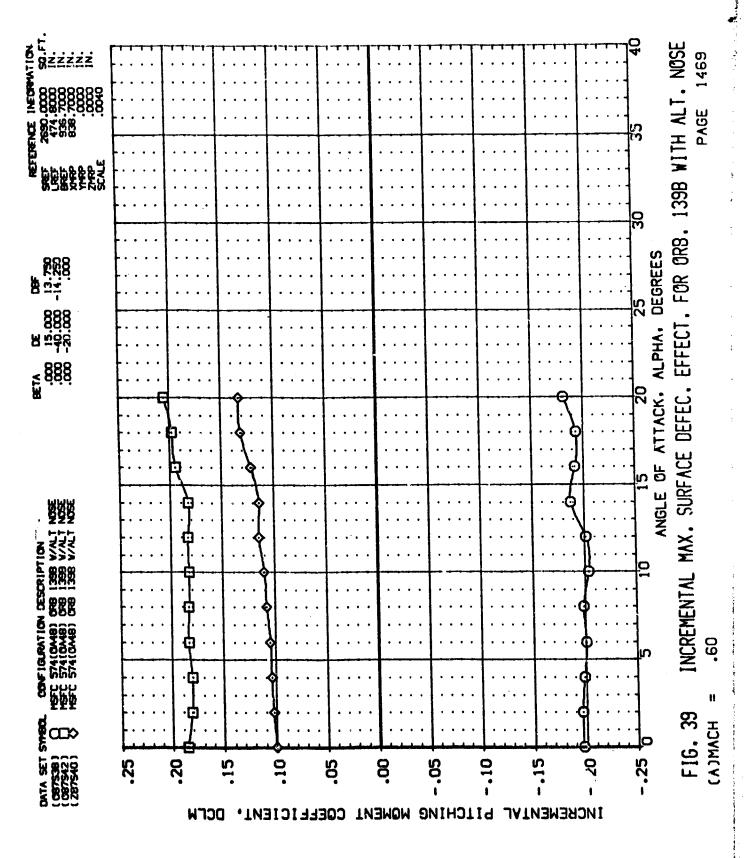


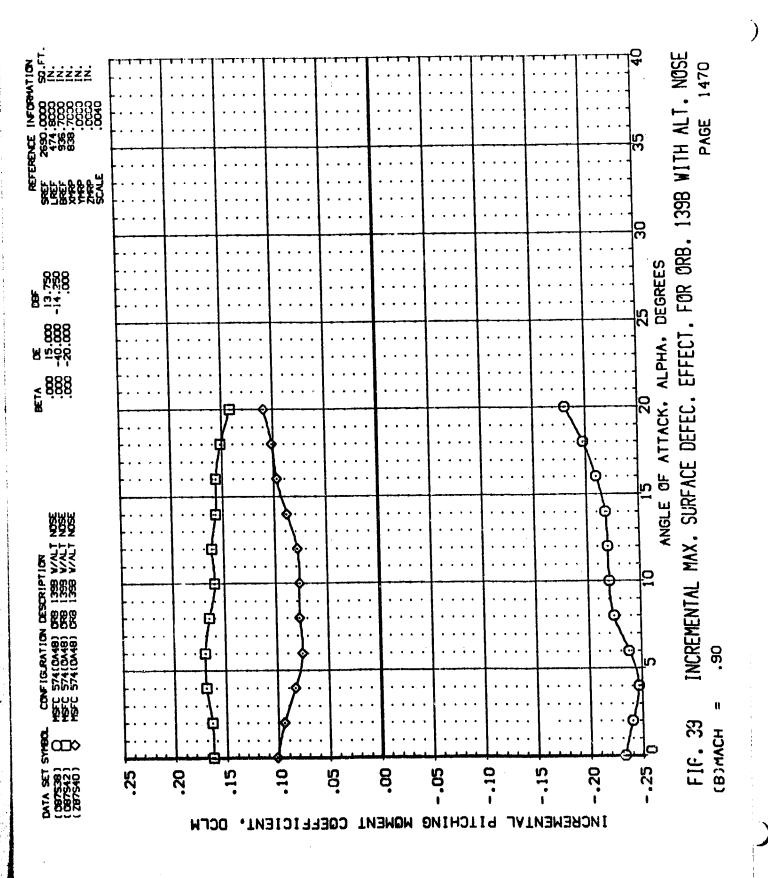


INCREMENTAL MAX. SURFACE DEFEC. EFFECT. FOR ORB. 139B WITH ALT. NOSE 1467 PAGE 2.99 FIG. 39 (E)MACH



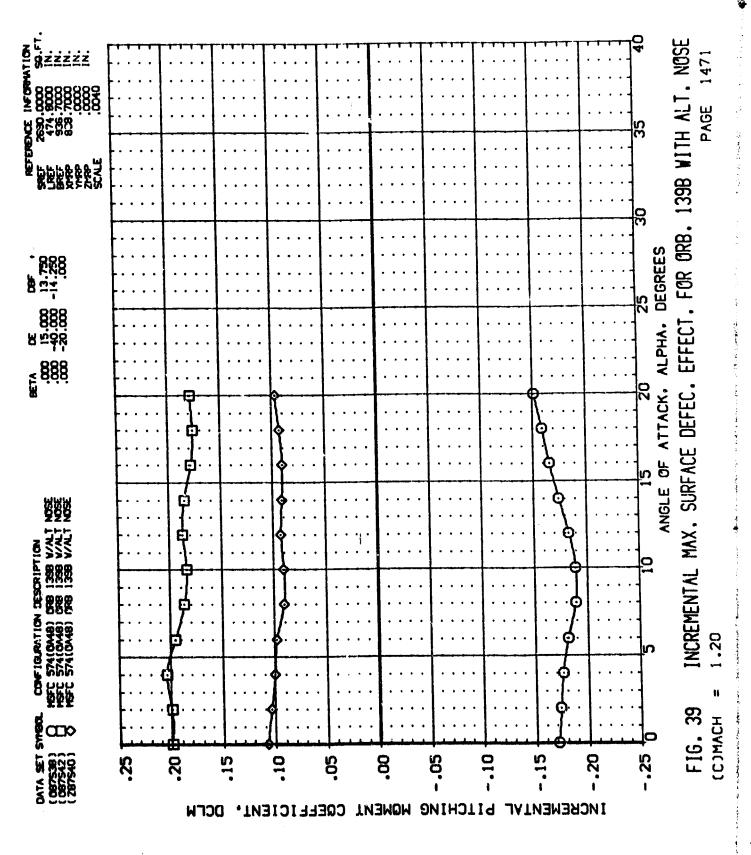


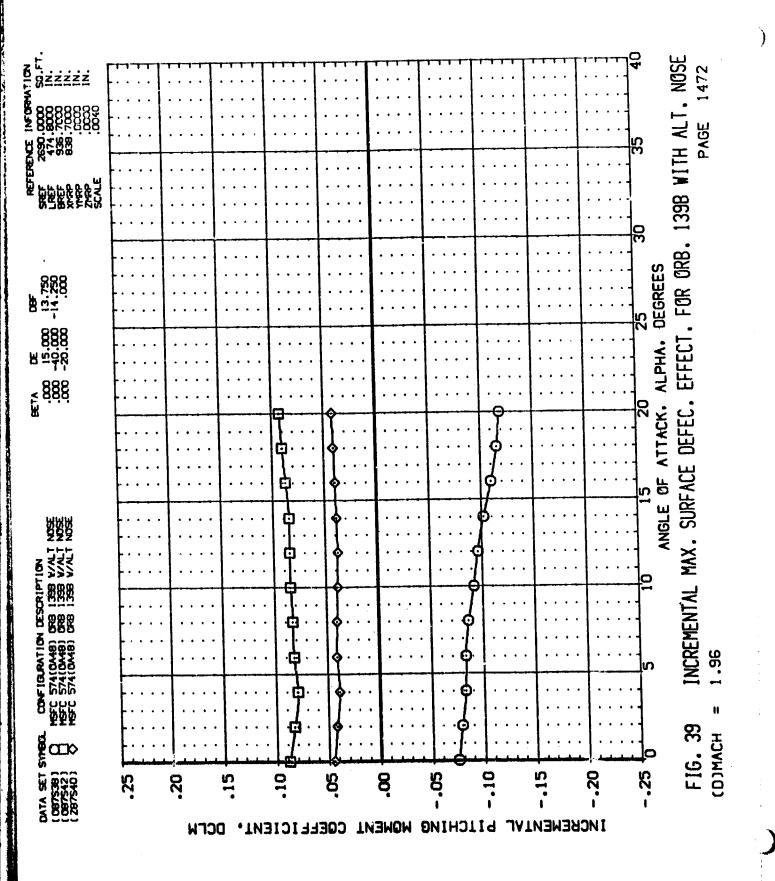






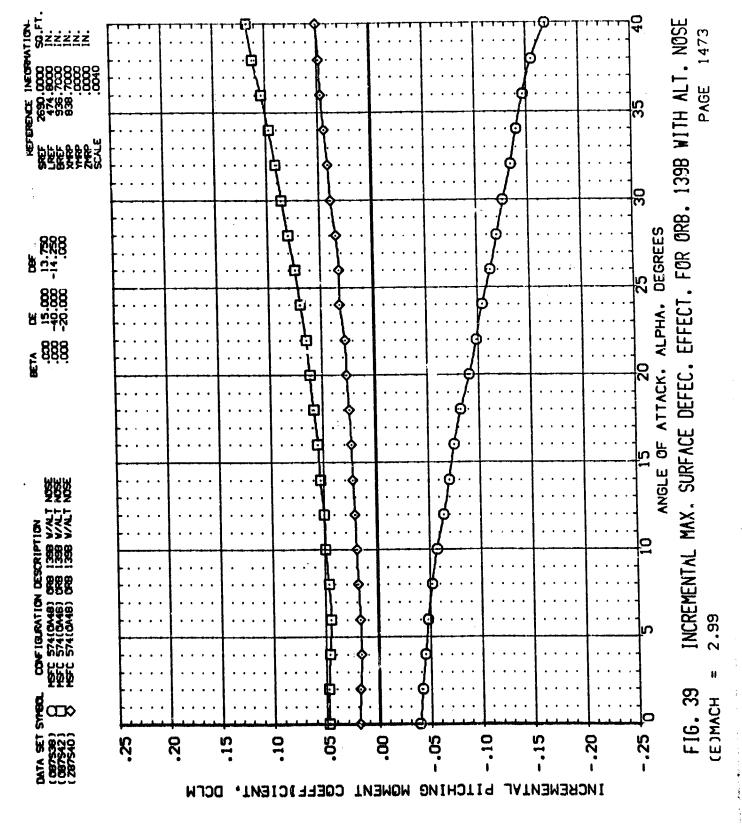
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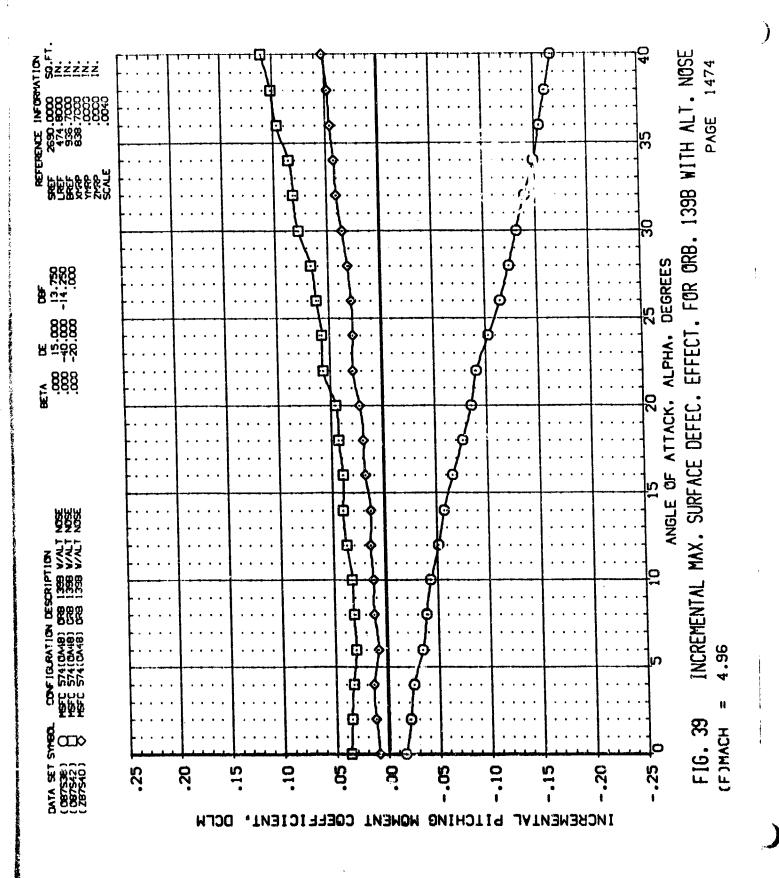


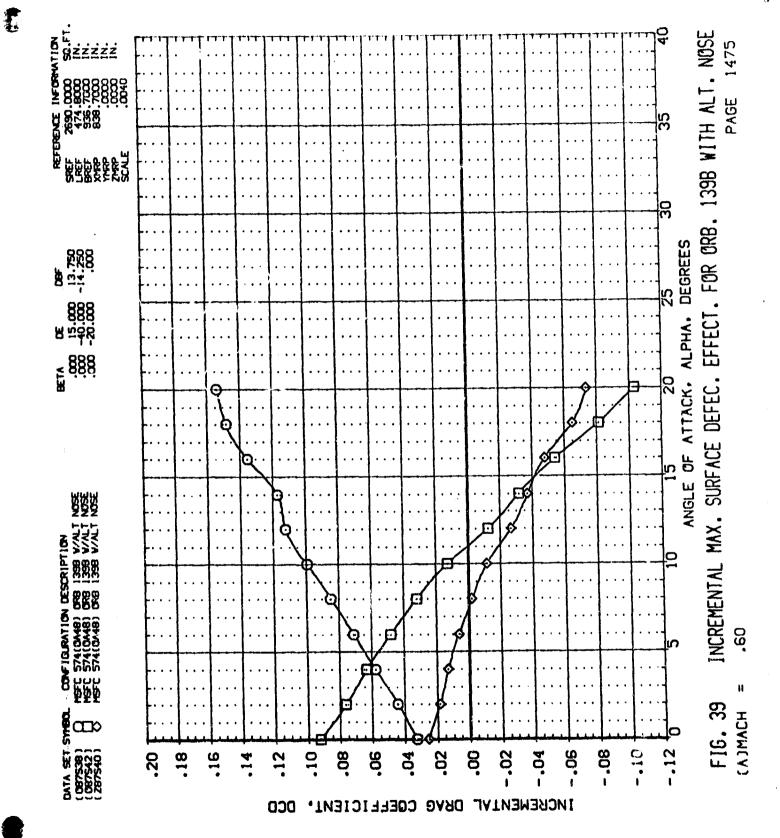


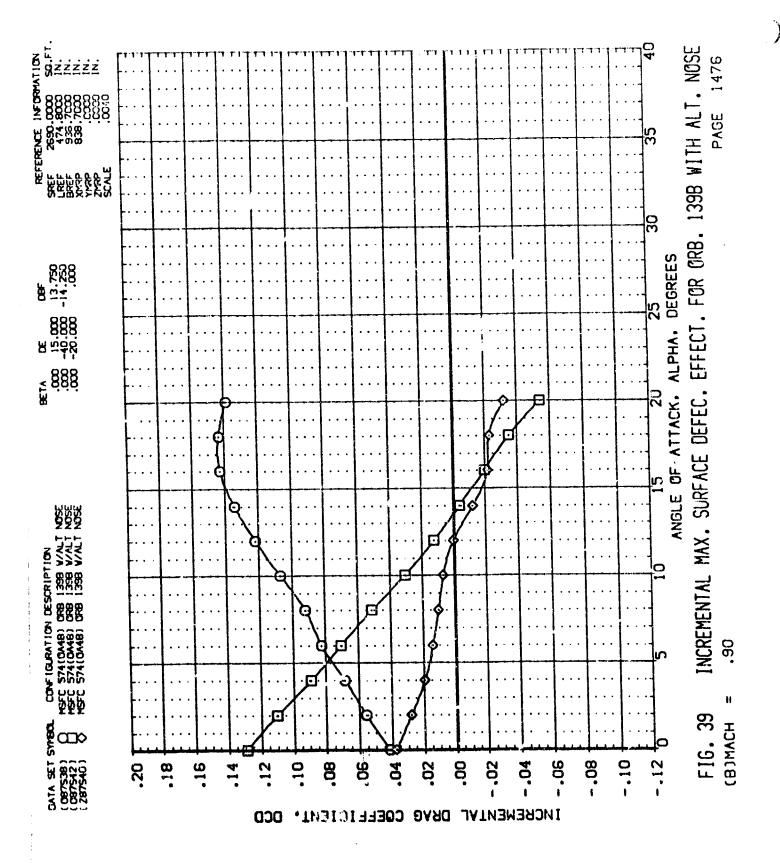


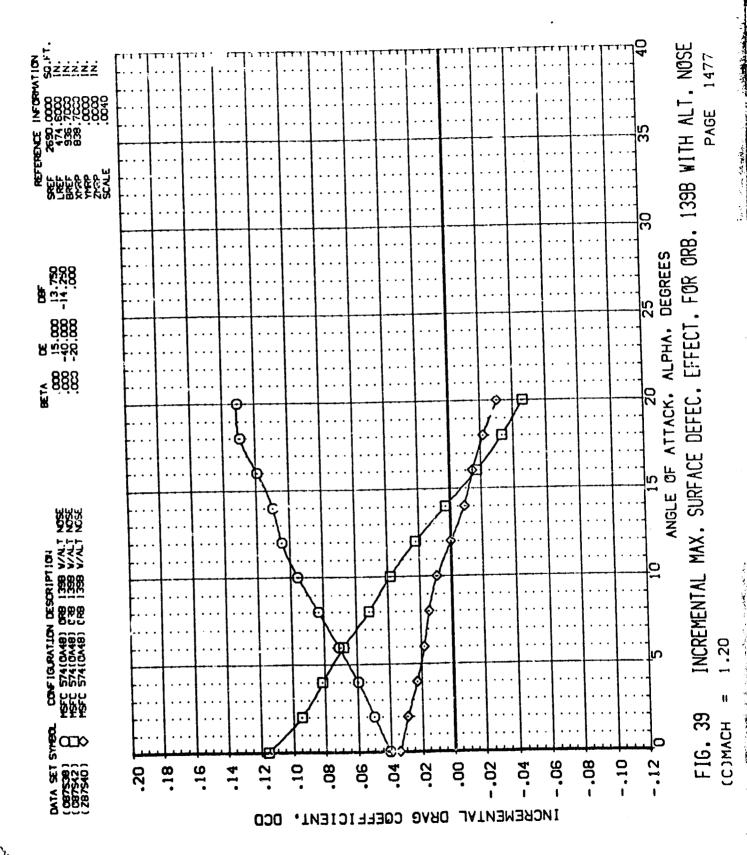
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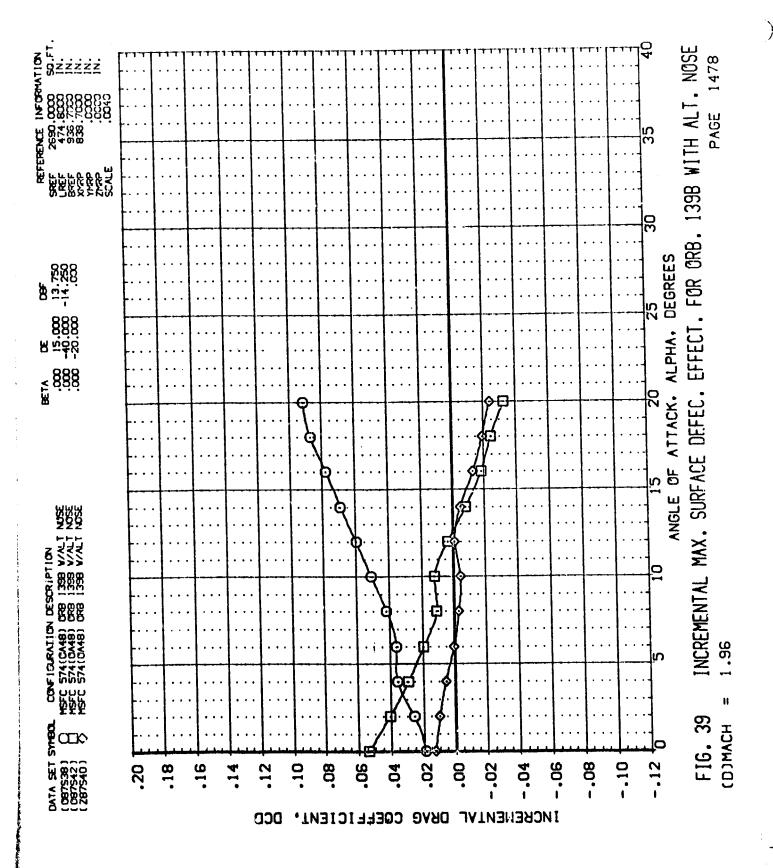




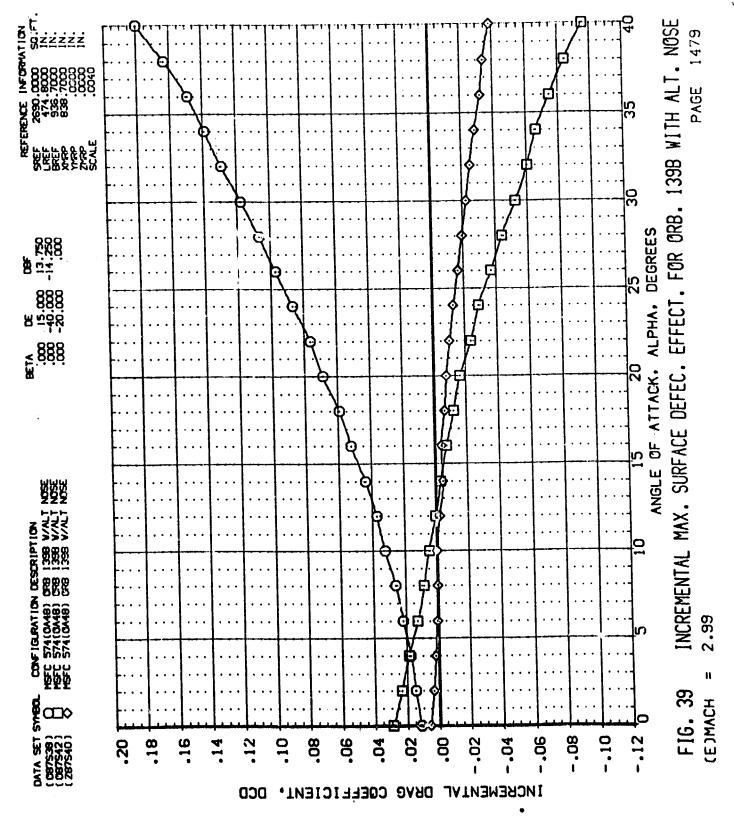


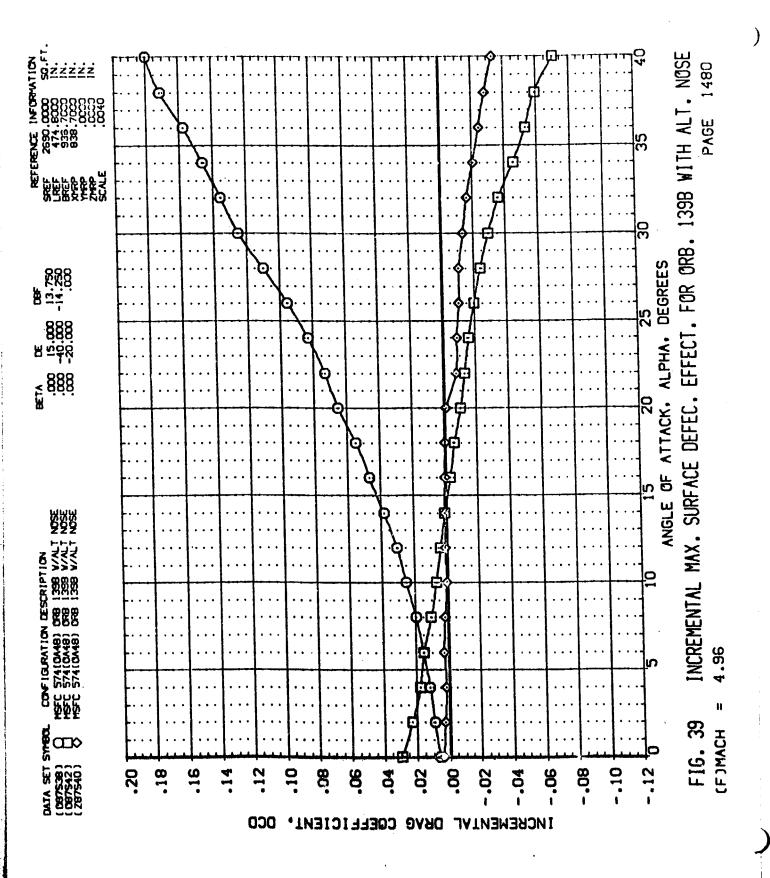




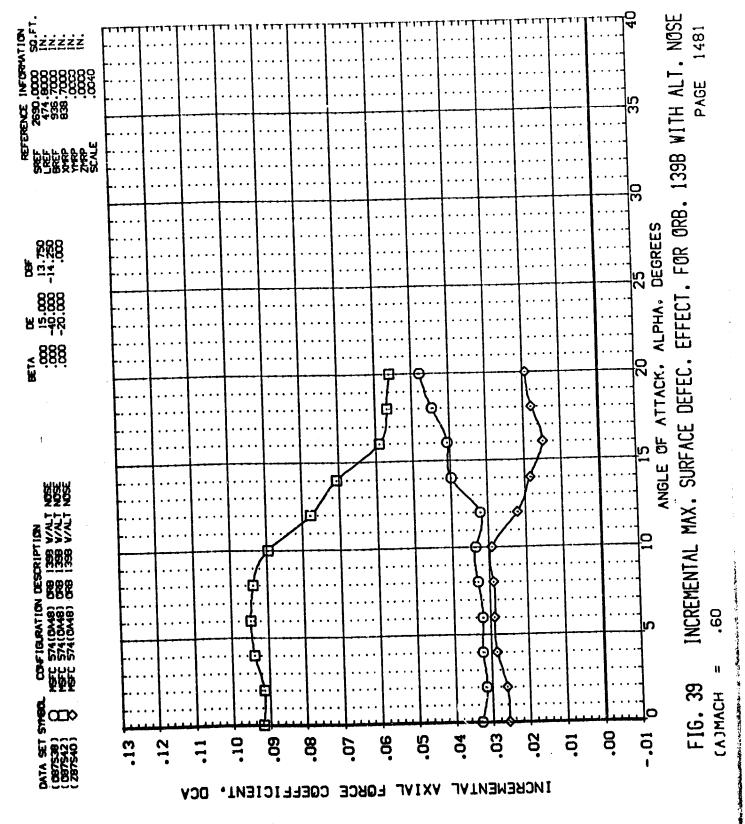


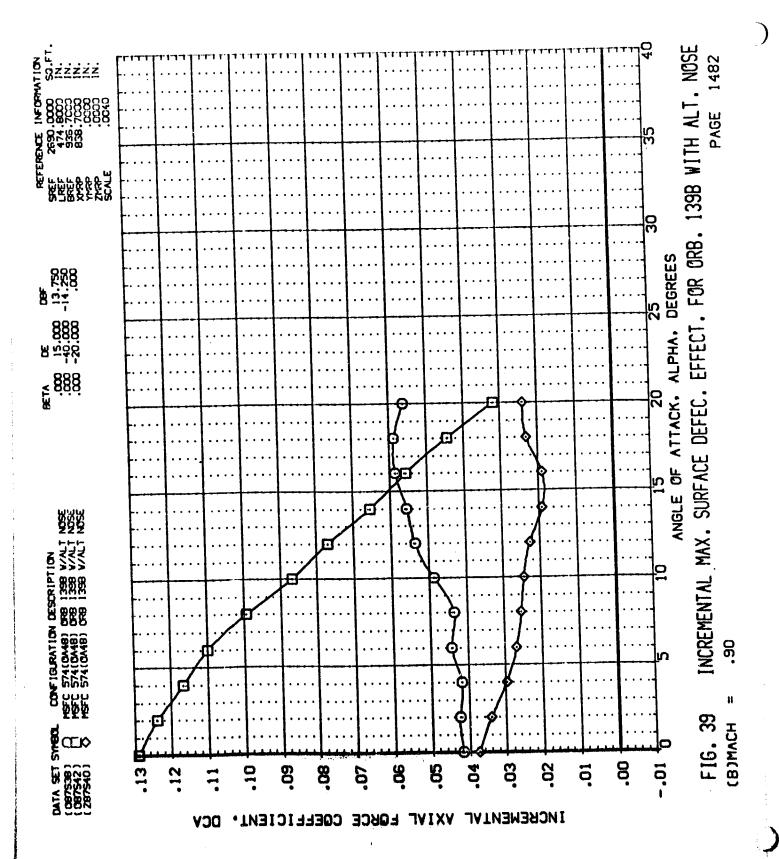
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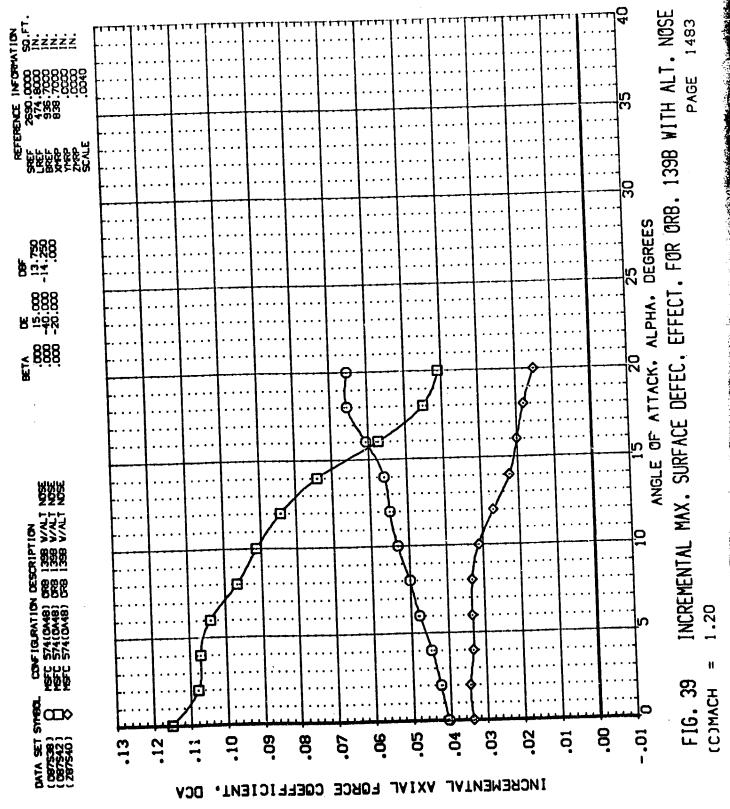


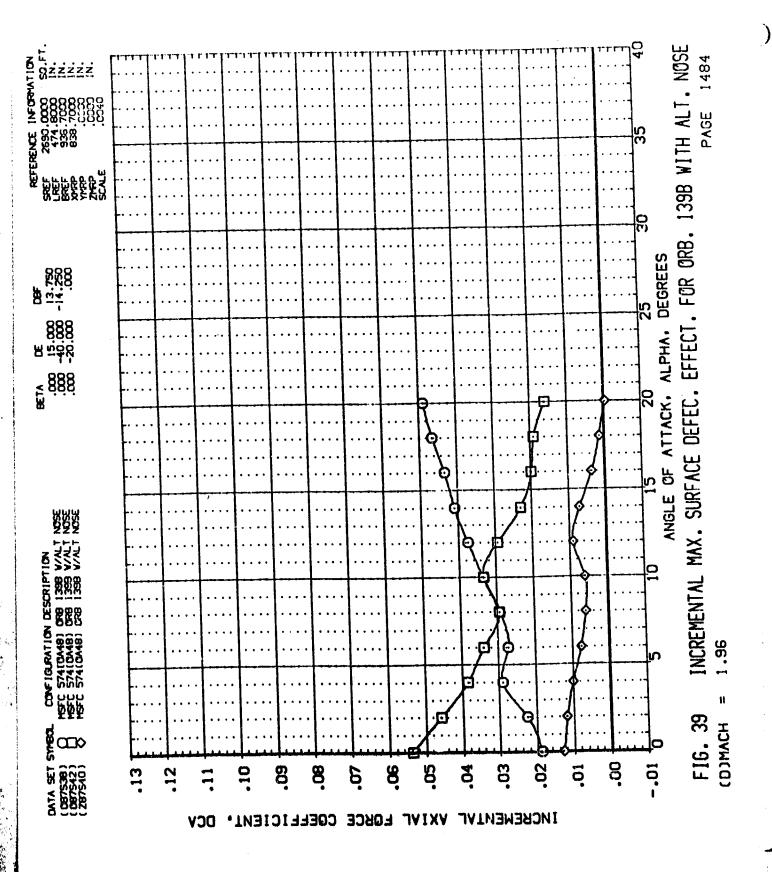
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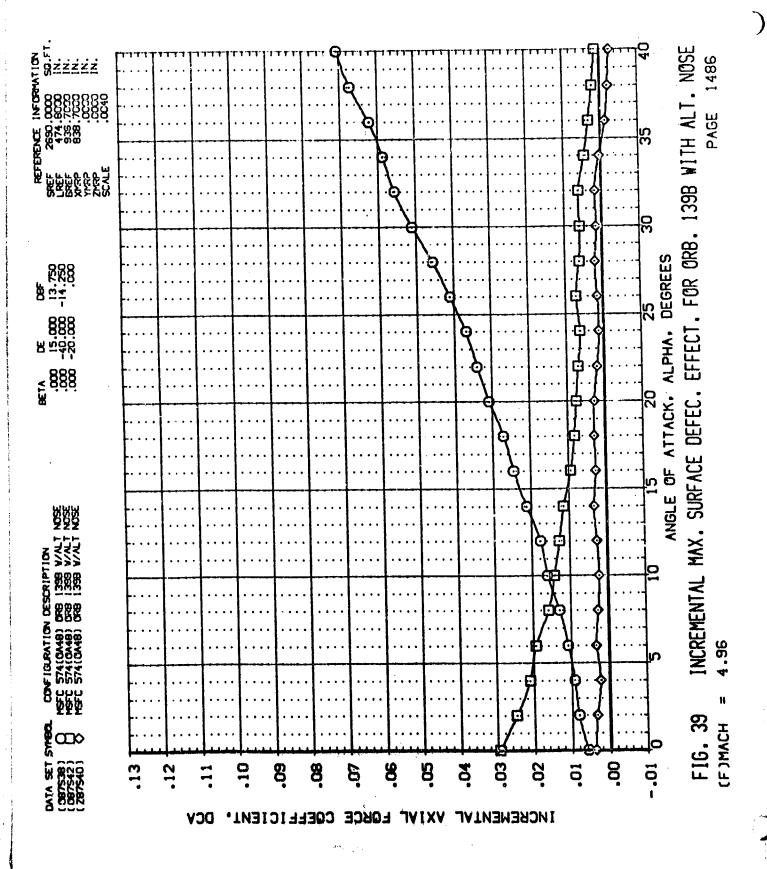




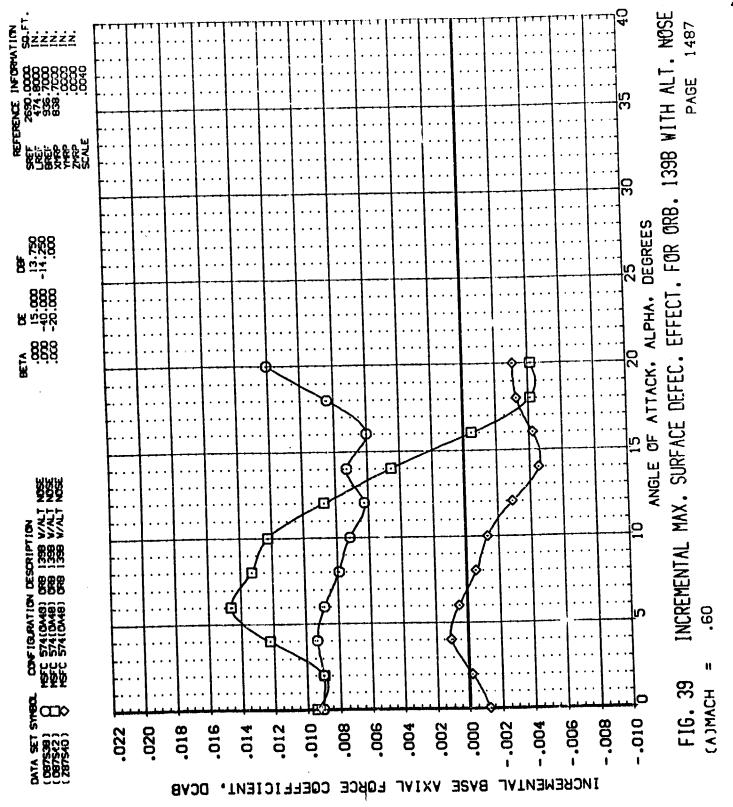


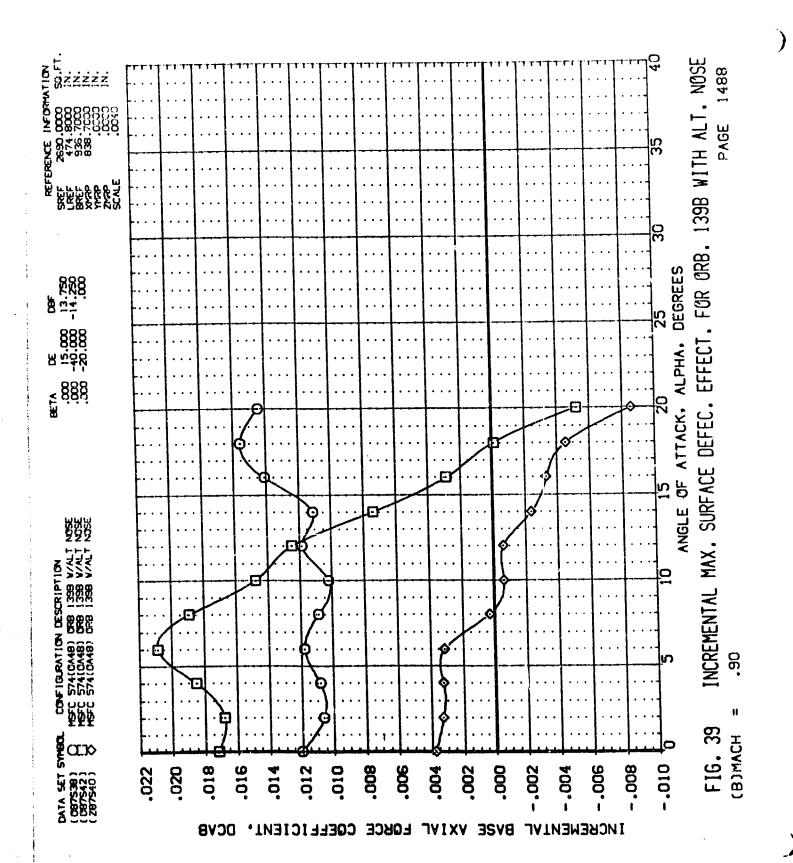
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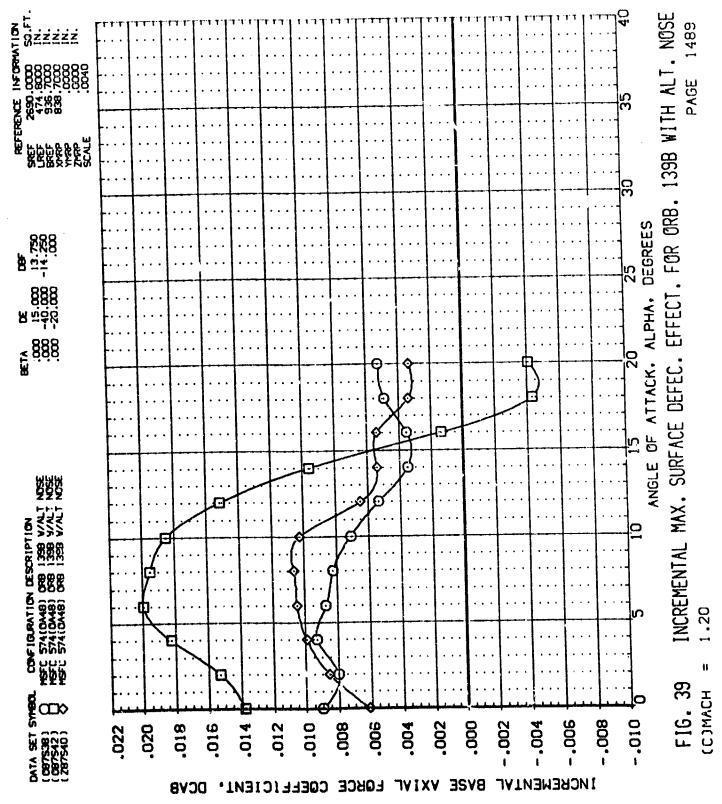


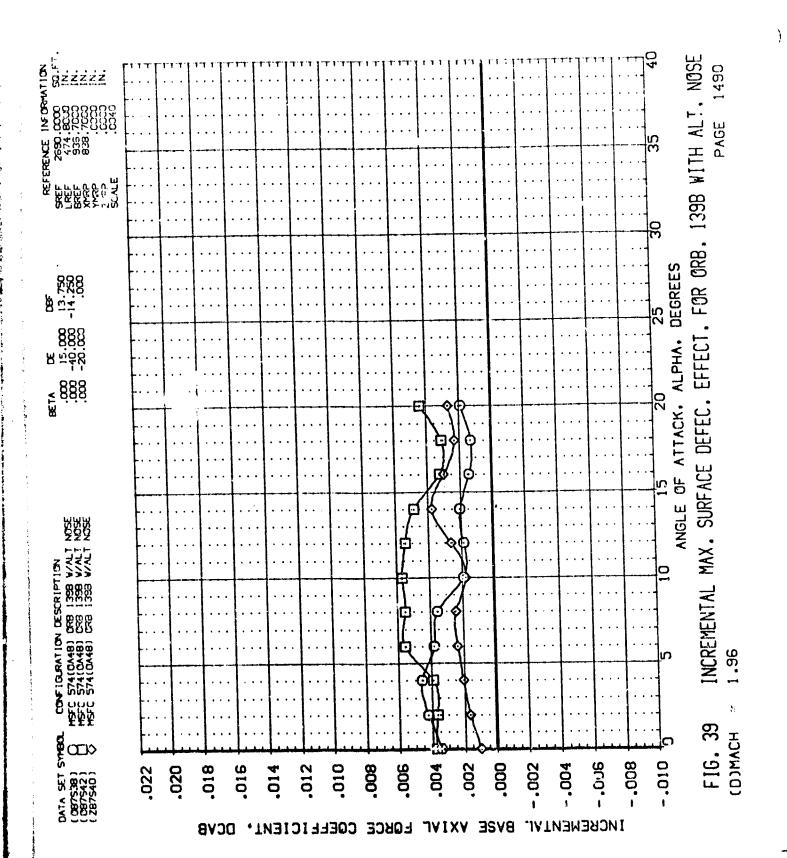






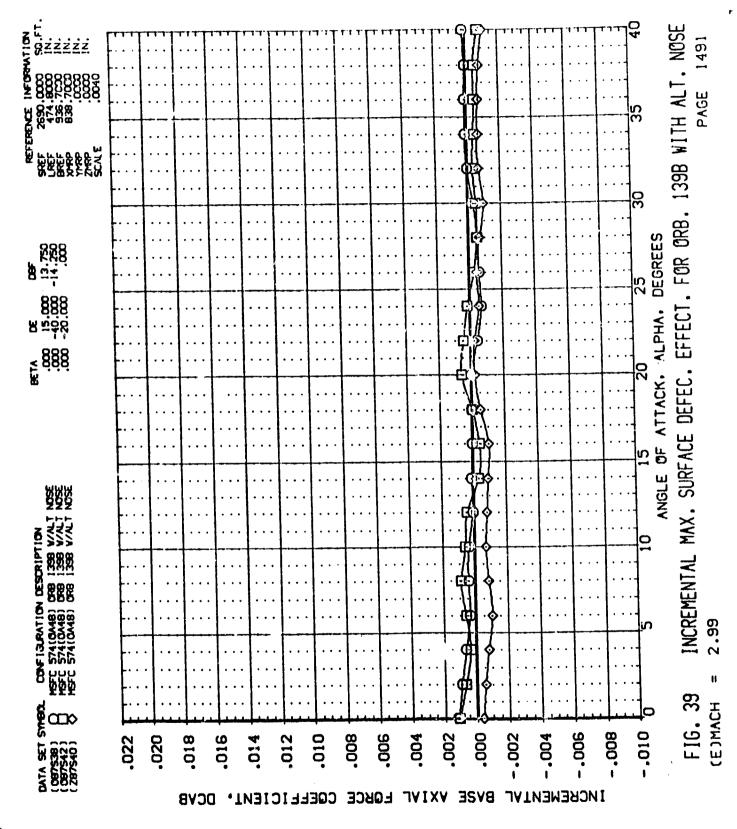
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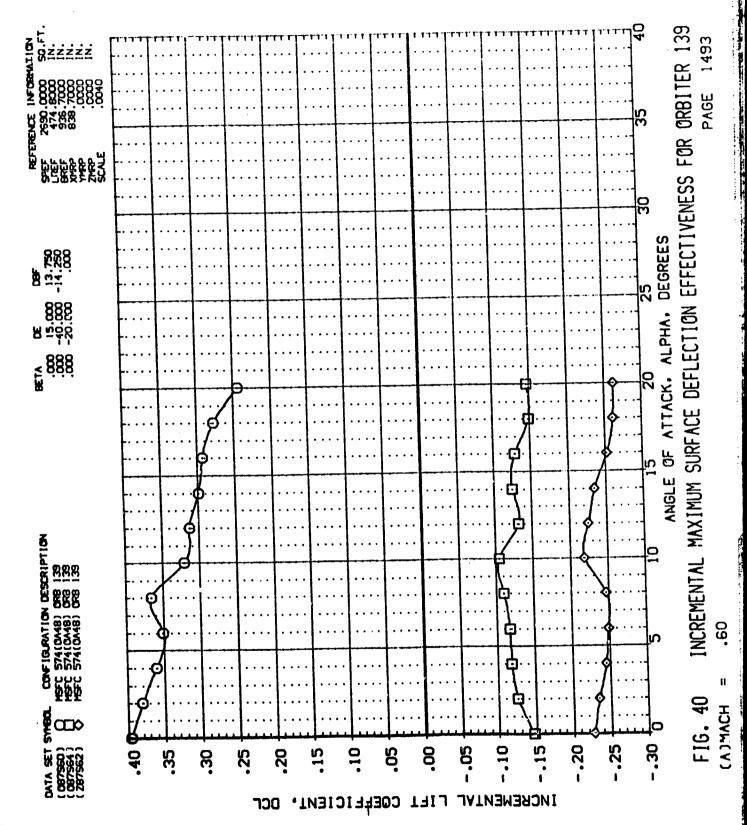


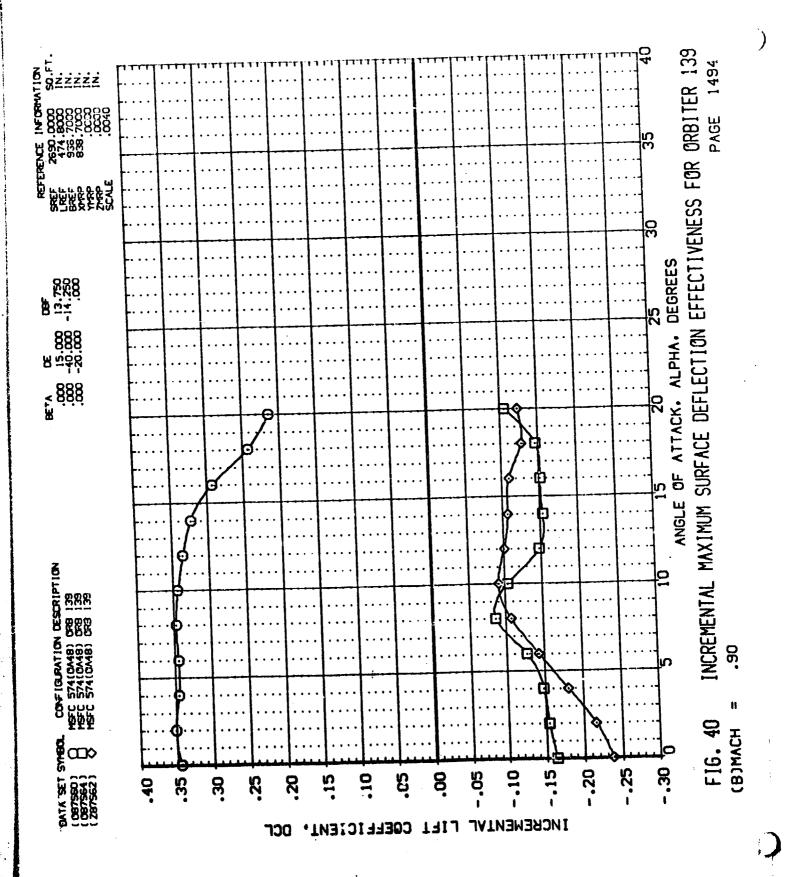
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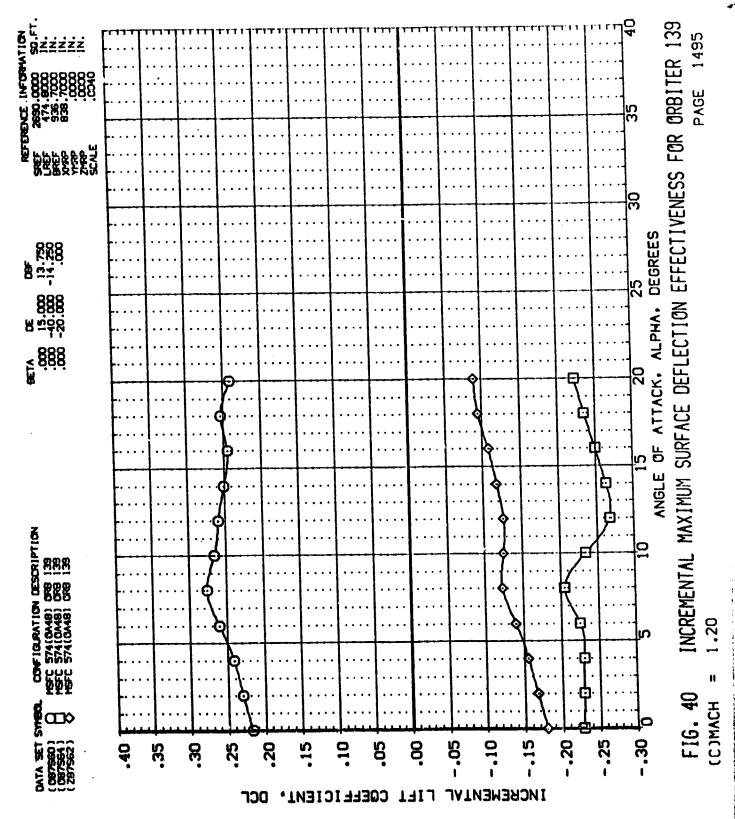


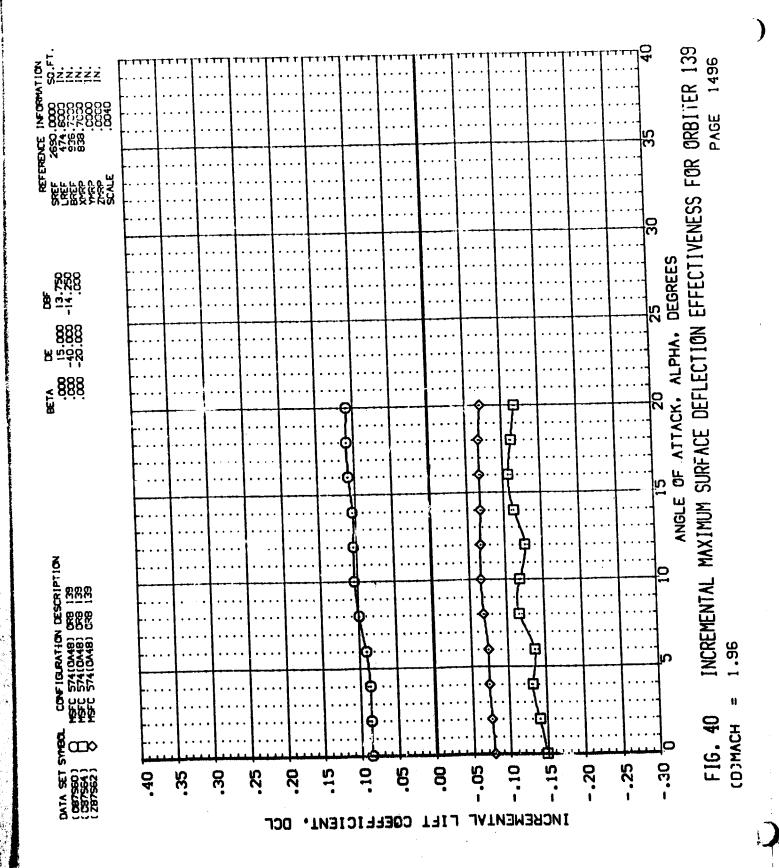




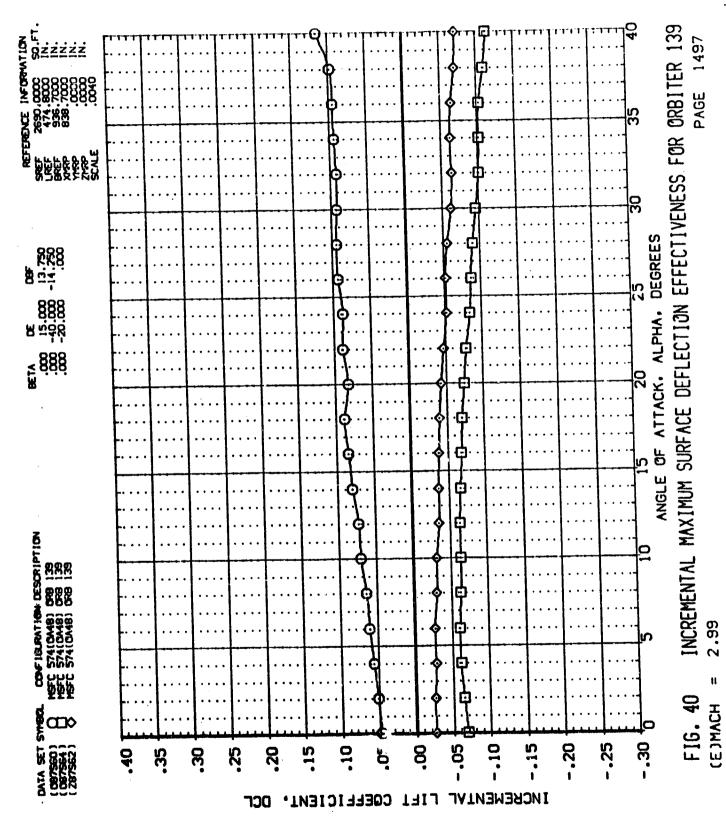


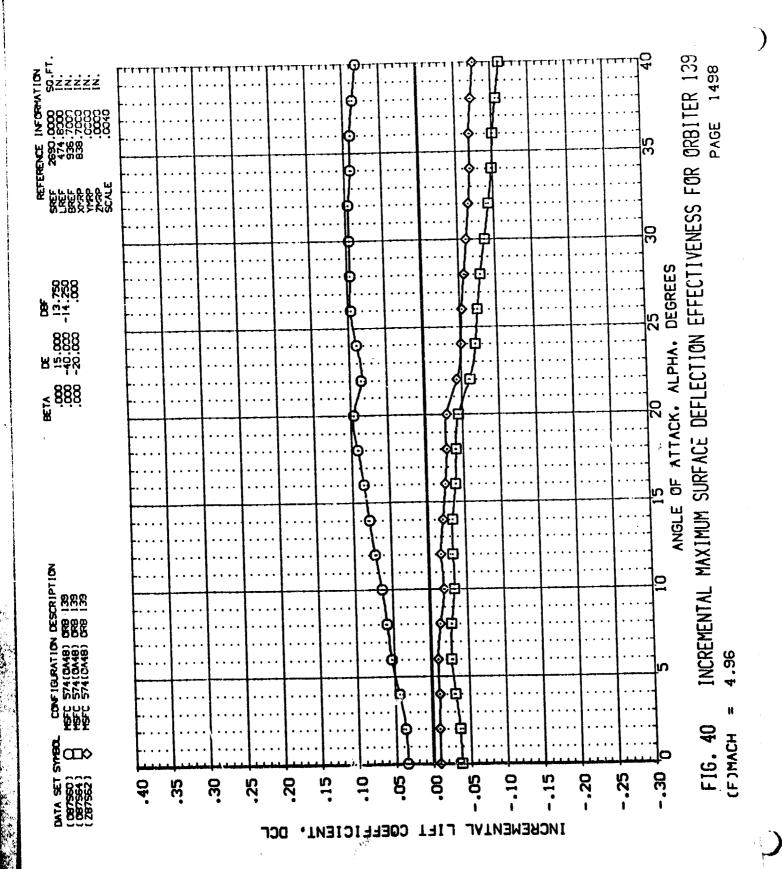
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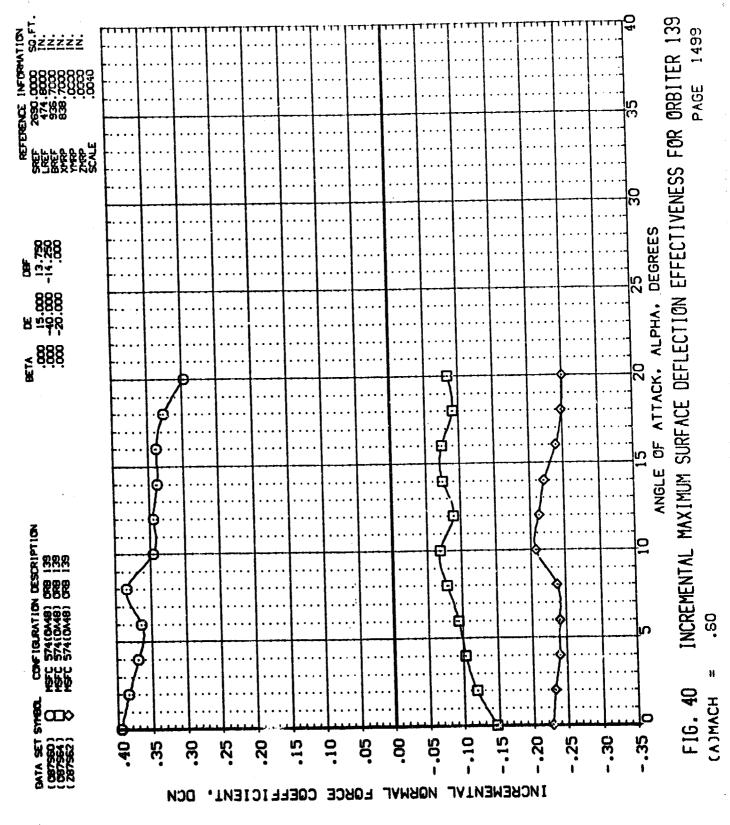


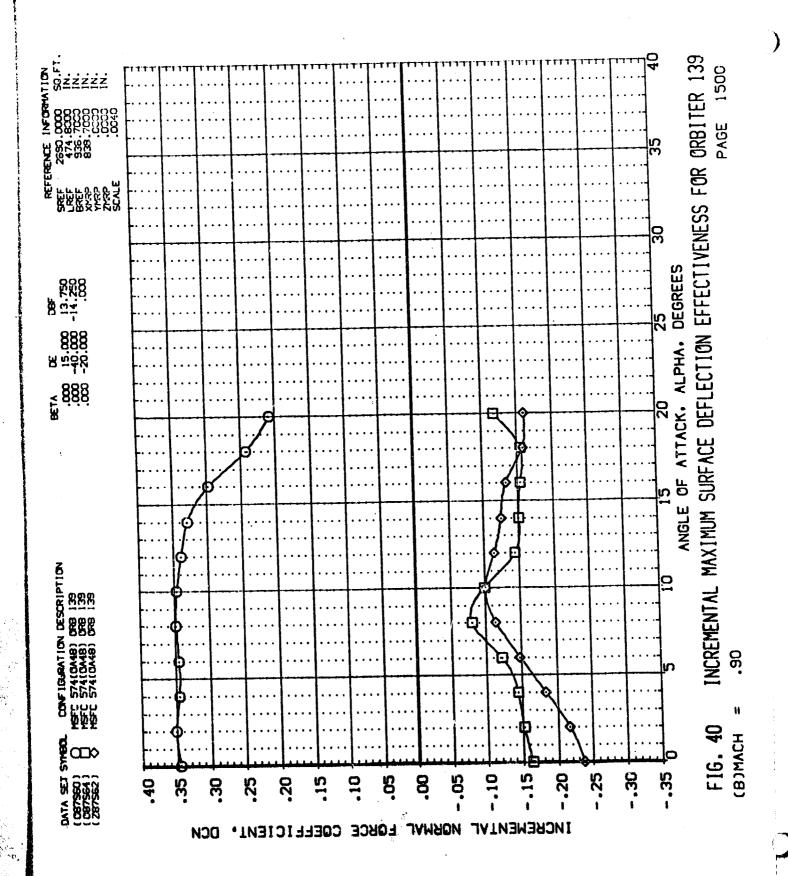




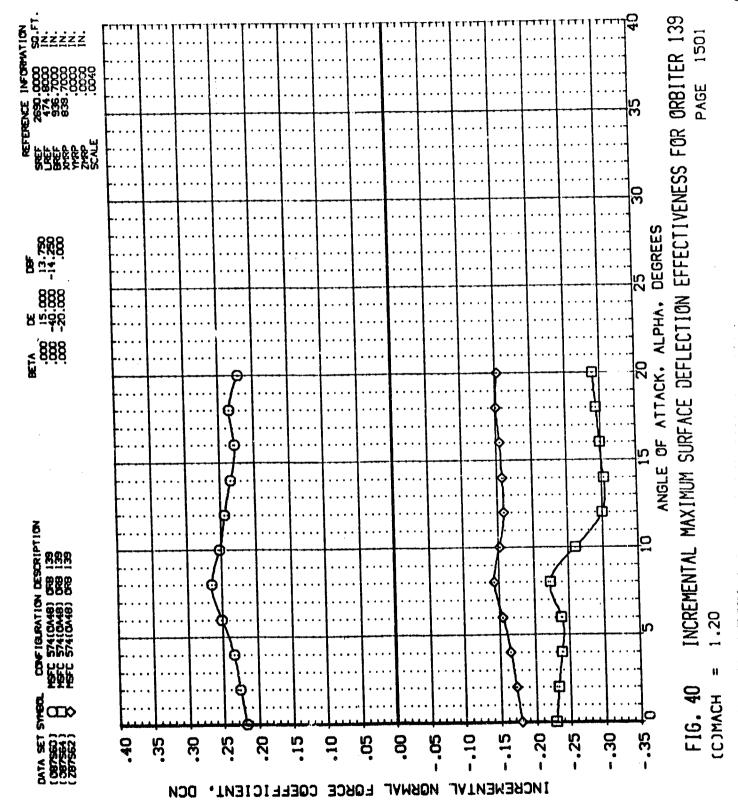


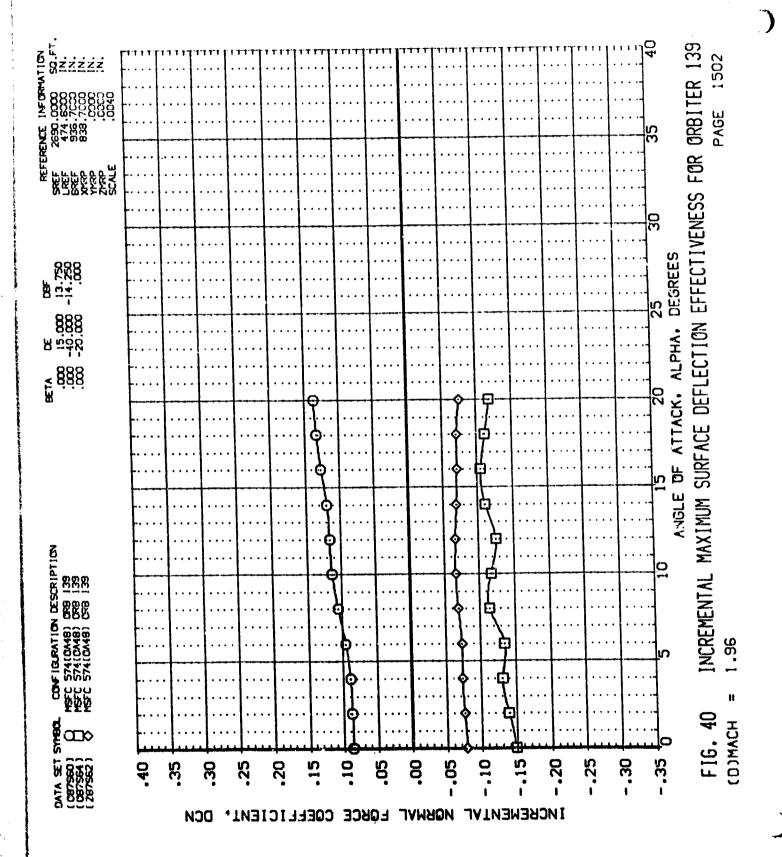
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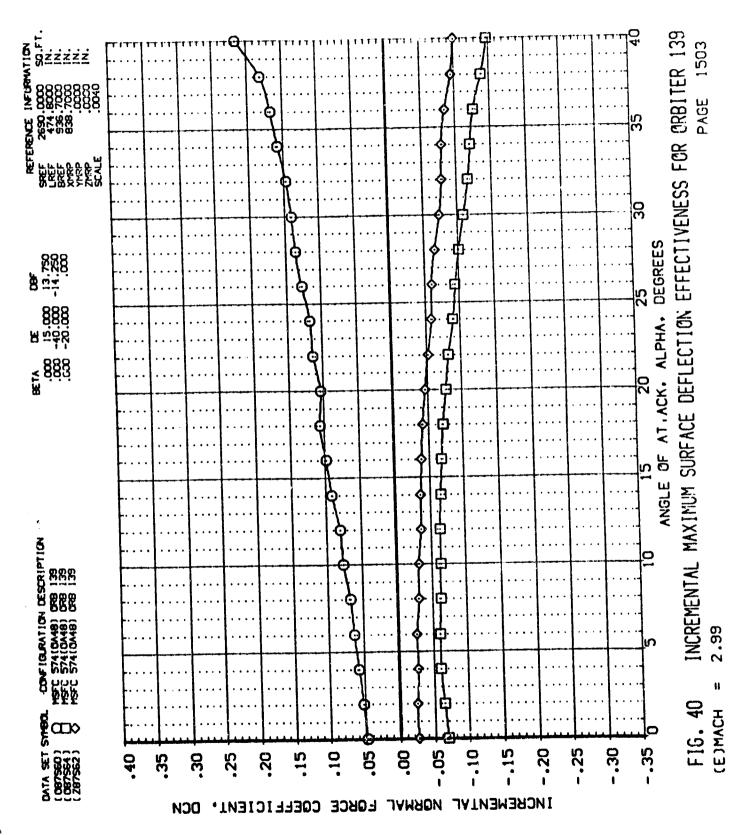


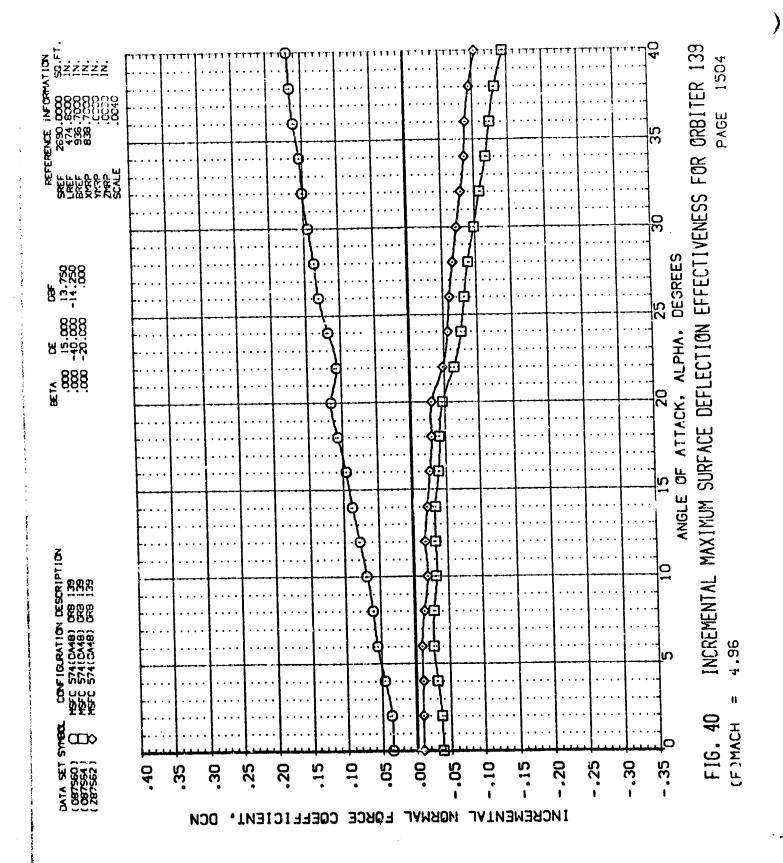


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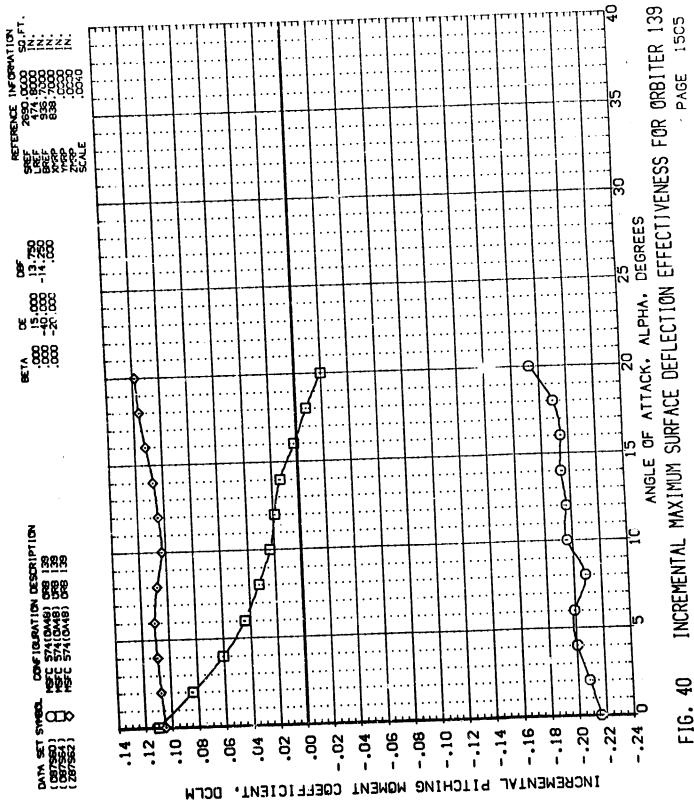
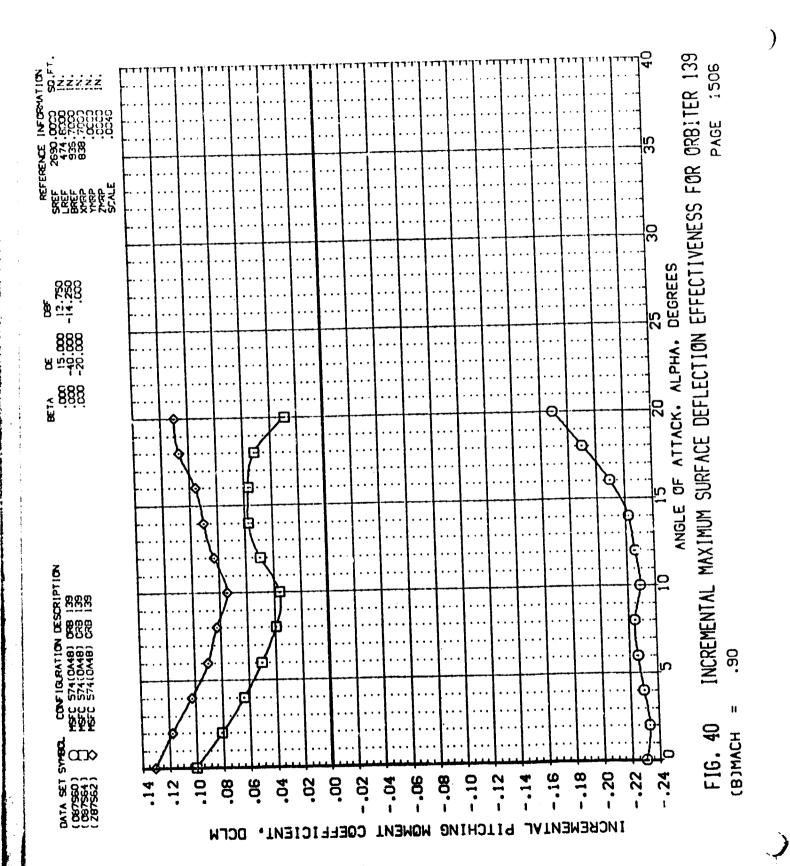
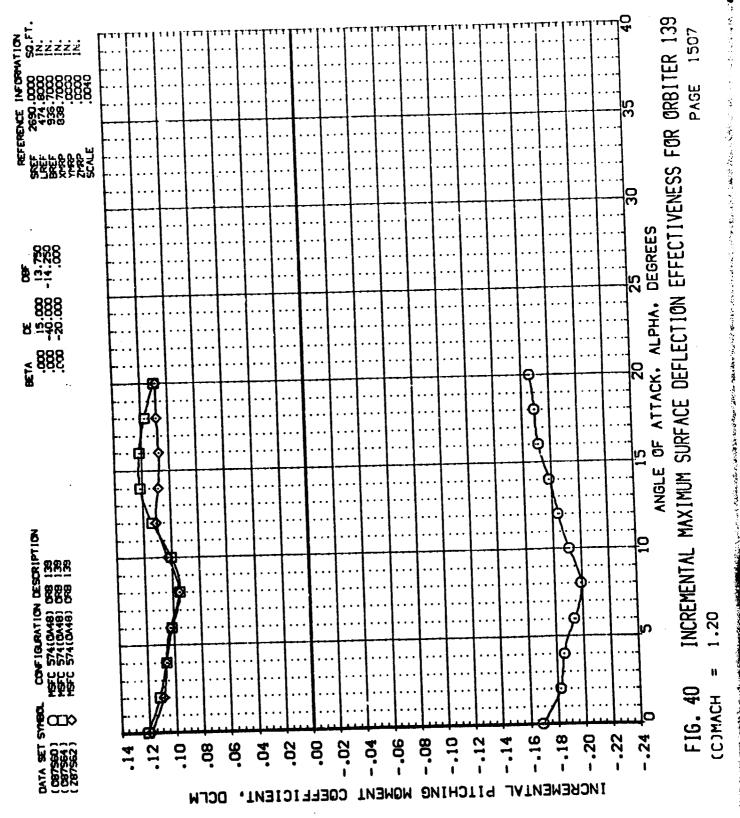
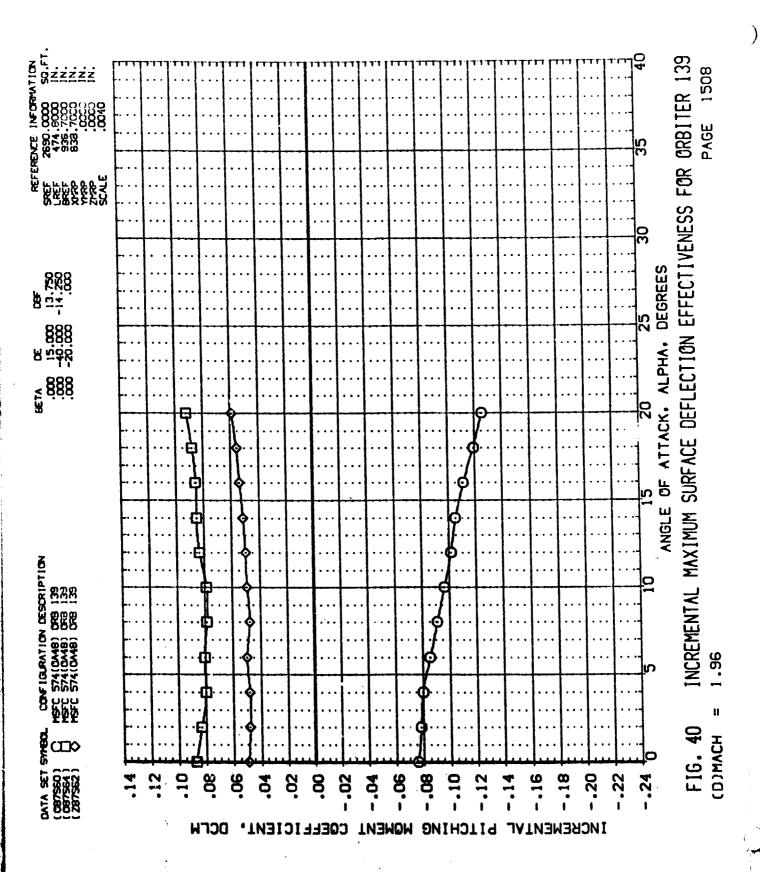


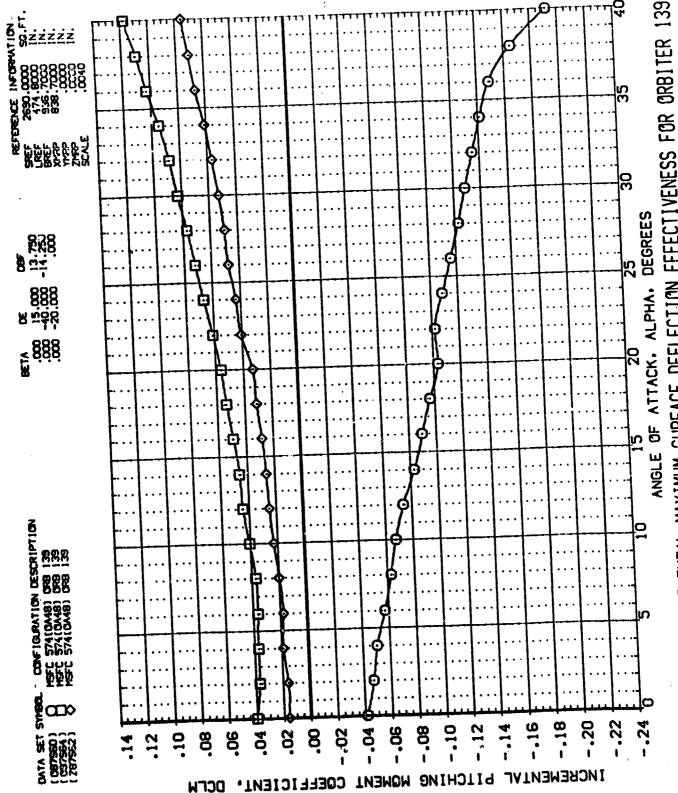
FIG. 40 INCREMENTAL MAXIMUM SONTACE (A) MACH = .60





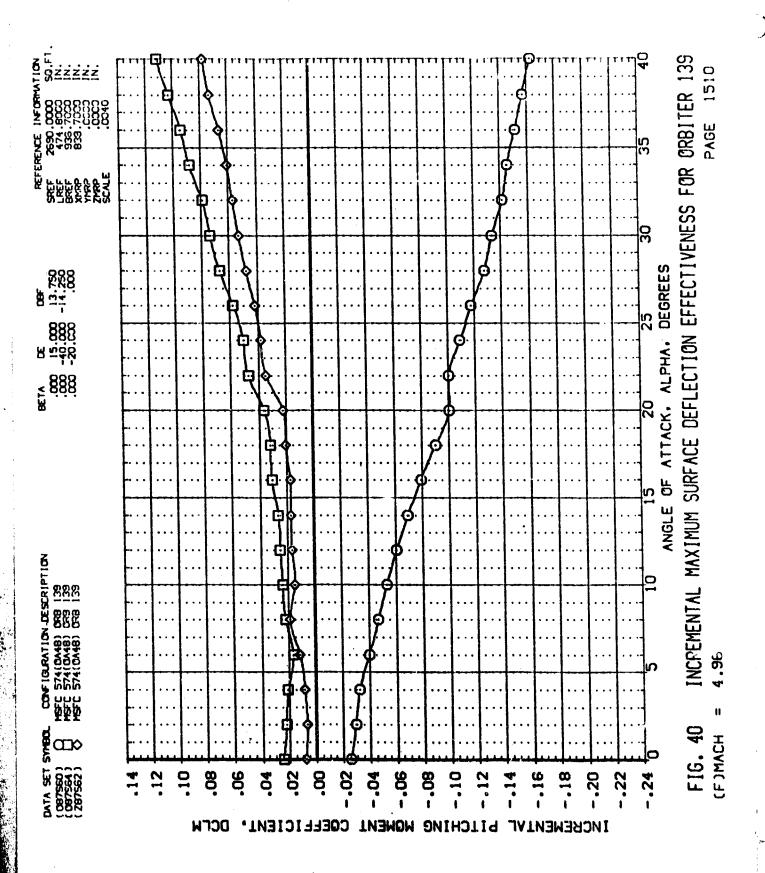




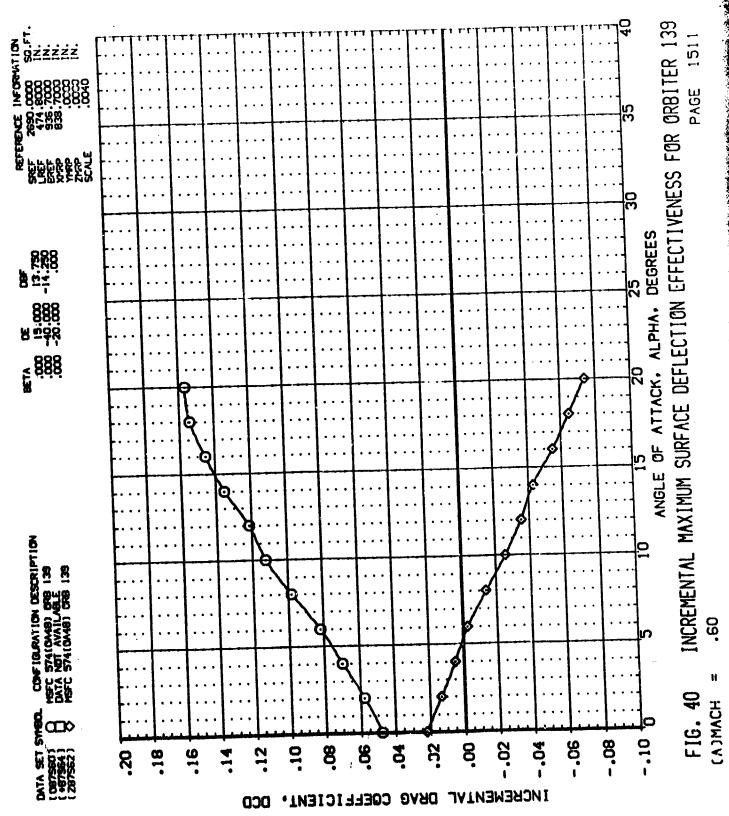


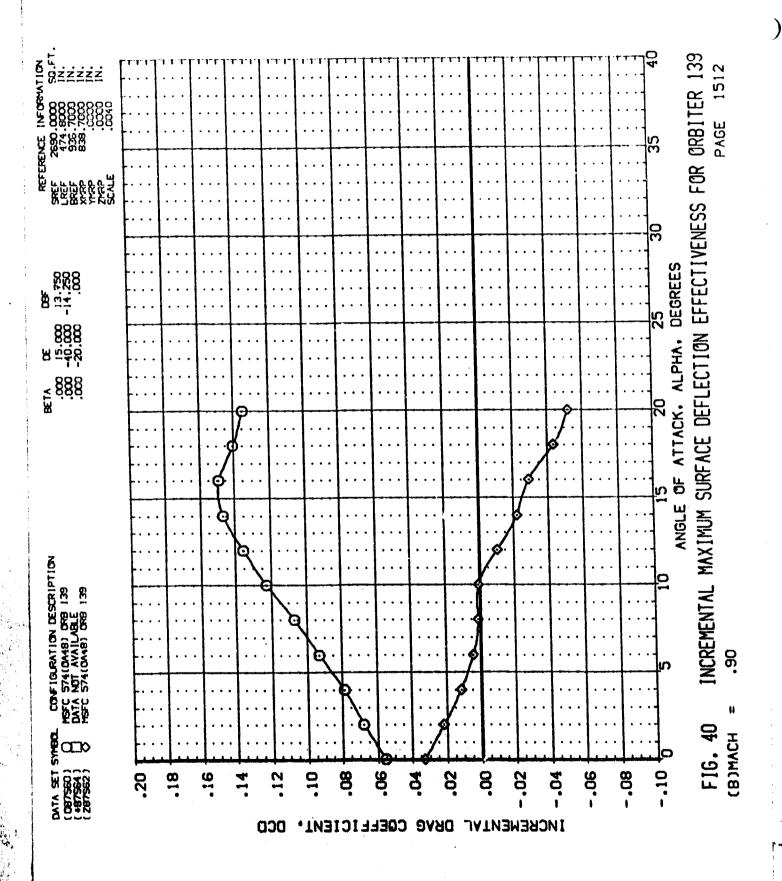
INCREMENTAL MAXIMUM SURFACE DEFLECTION EFFECTIVENESS FOR ORBITER 139 2.99 FIG. 40

(E)MACH

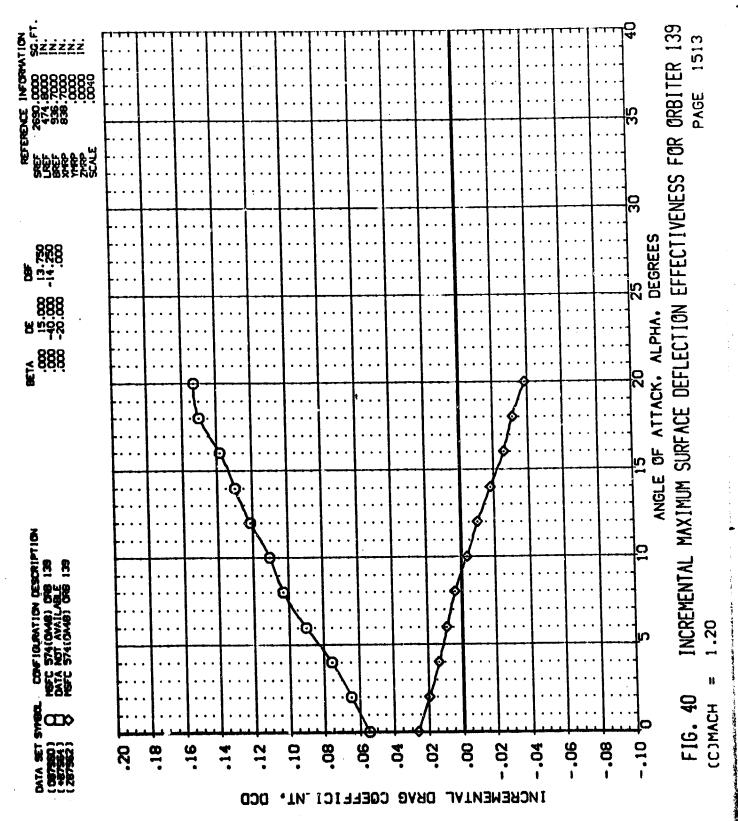


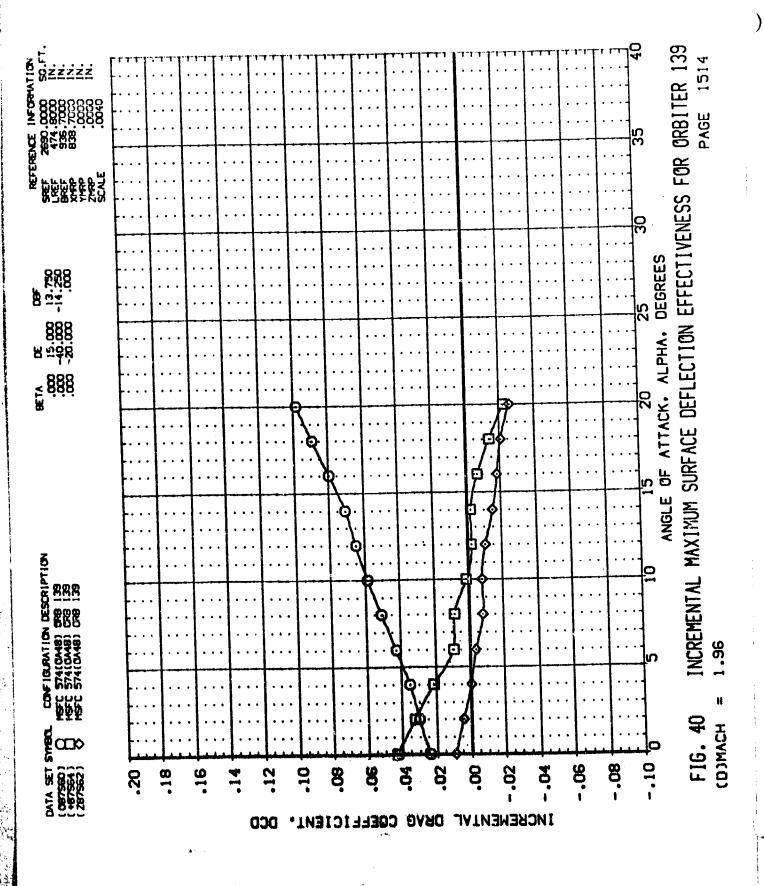




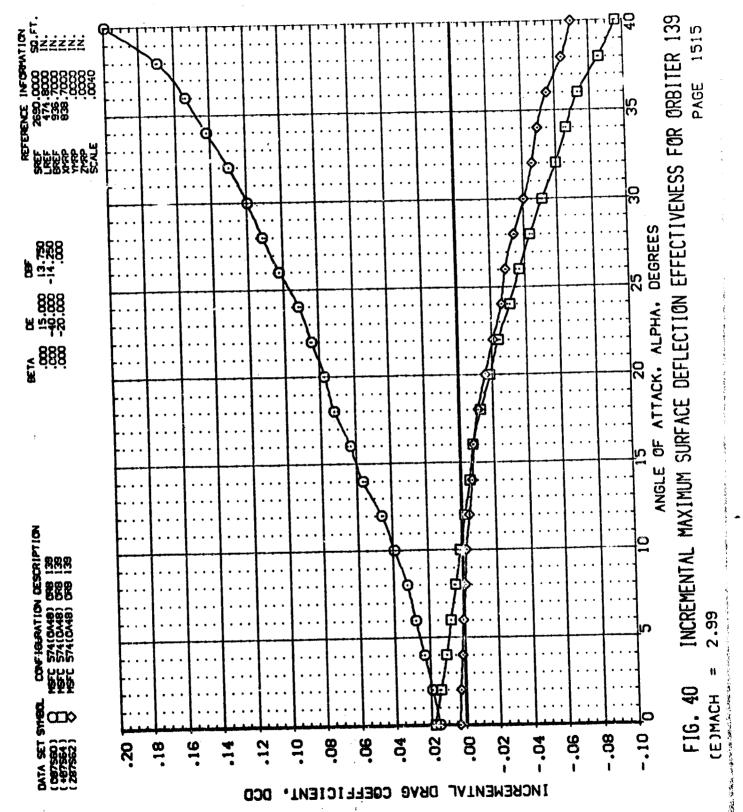


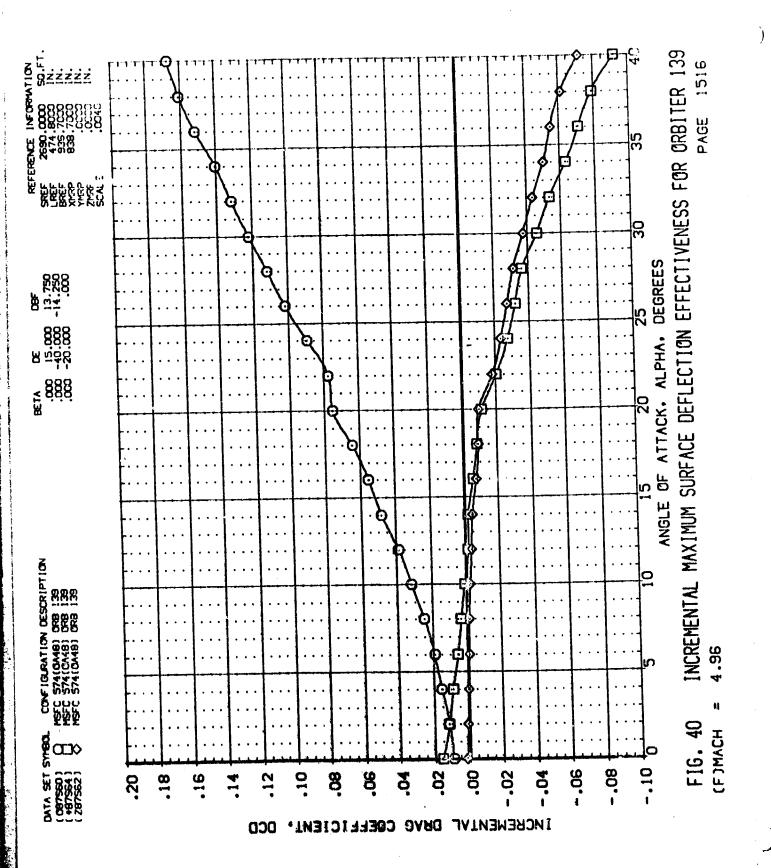


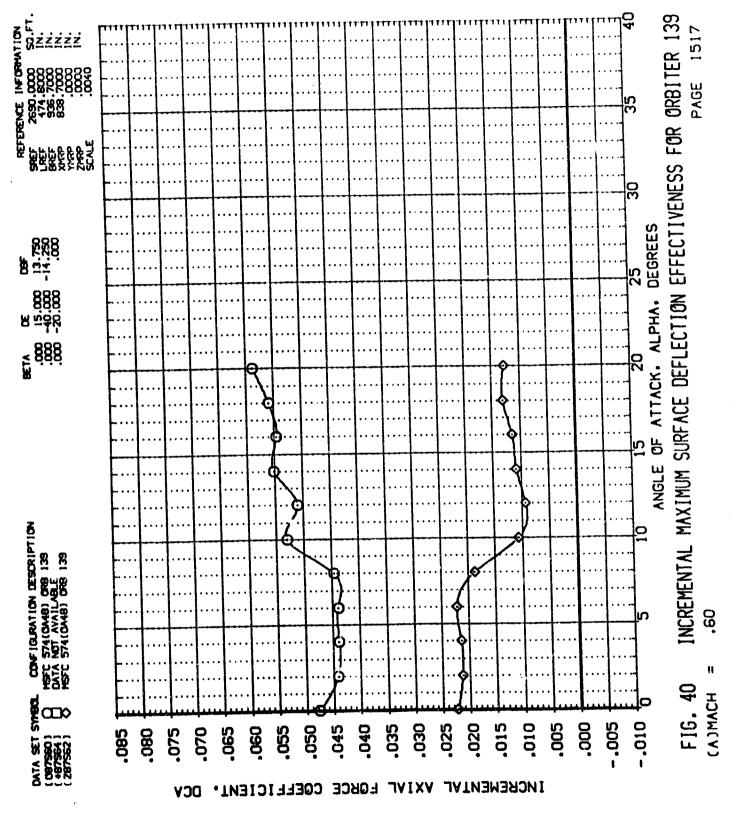


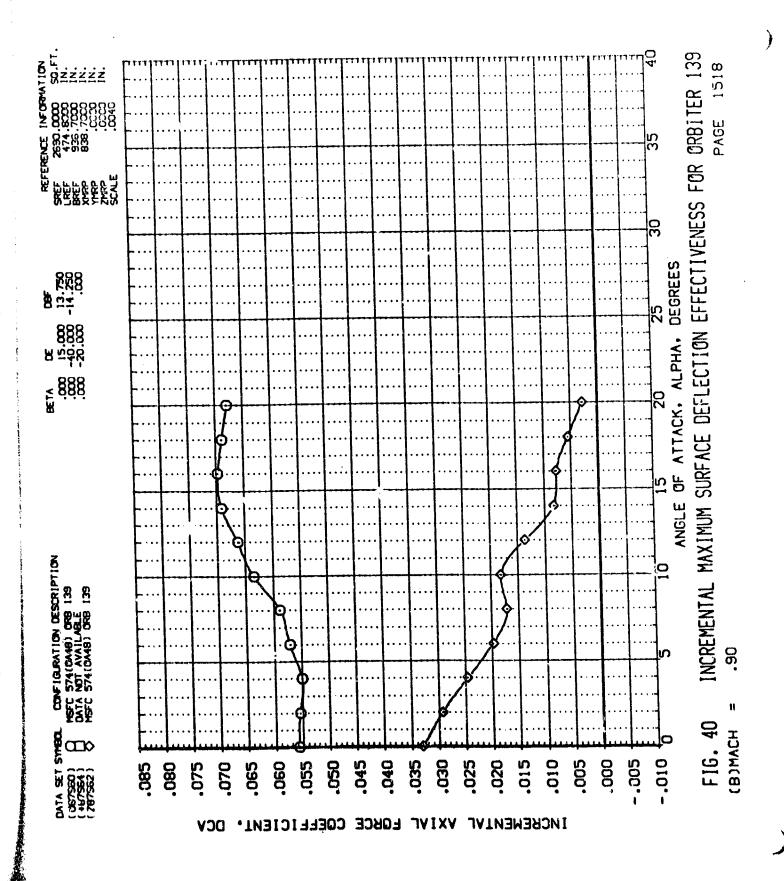






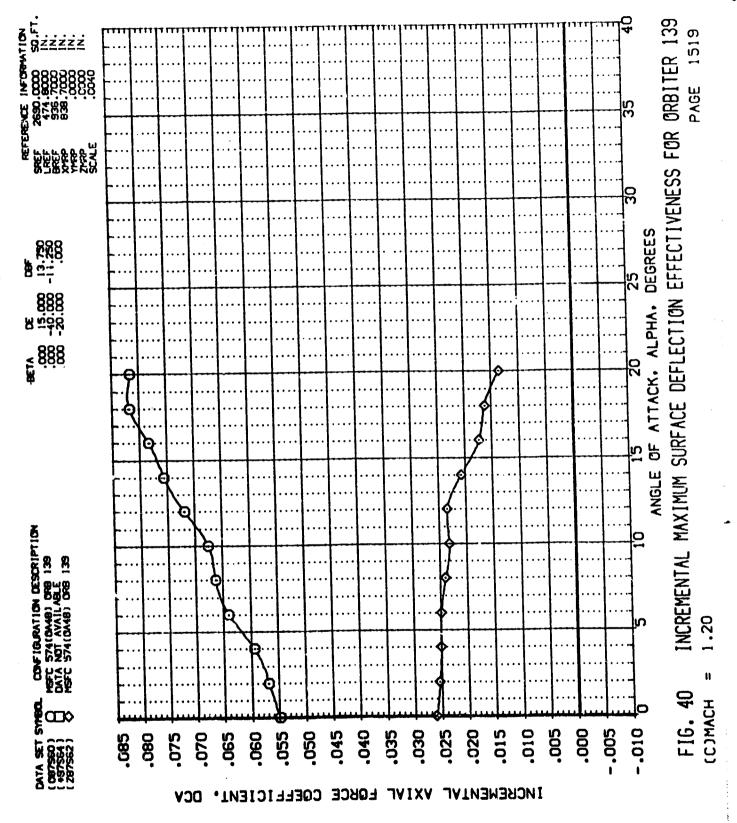


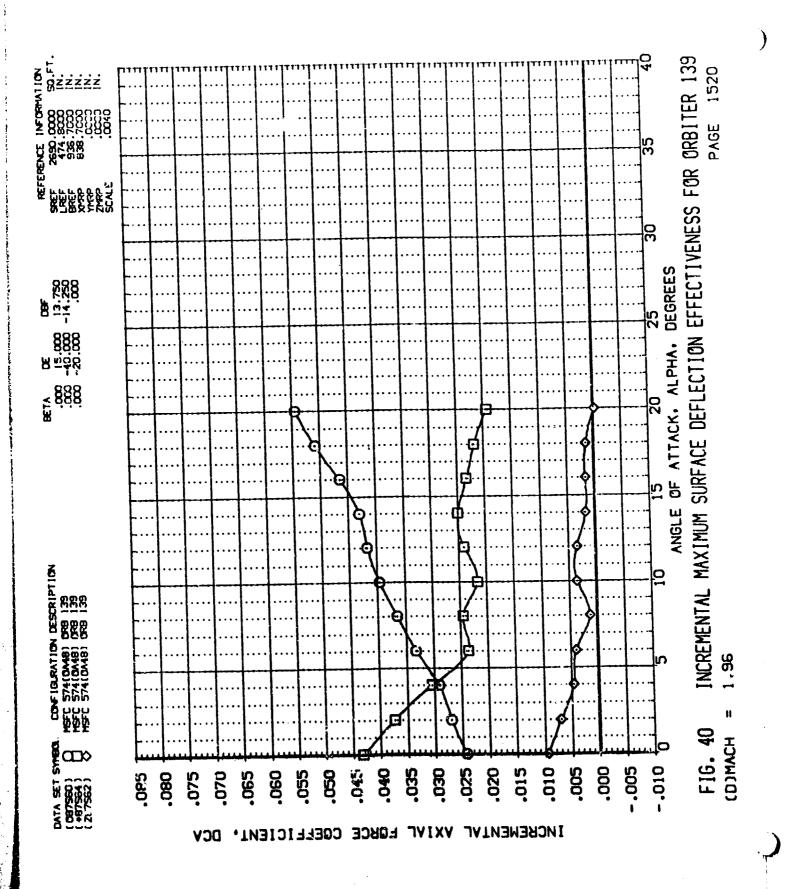




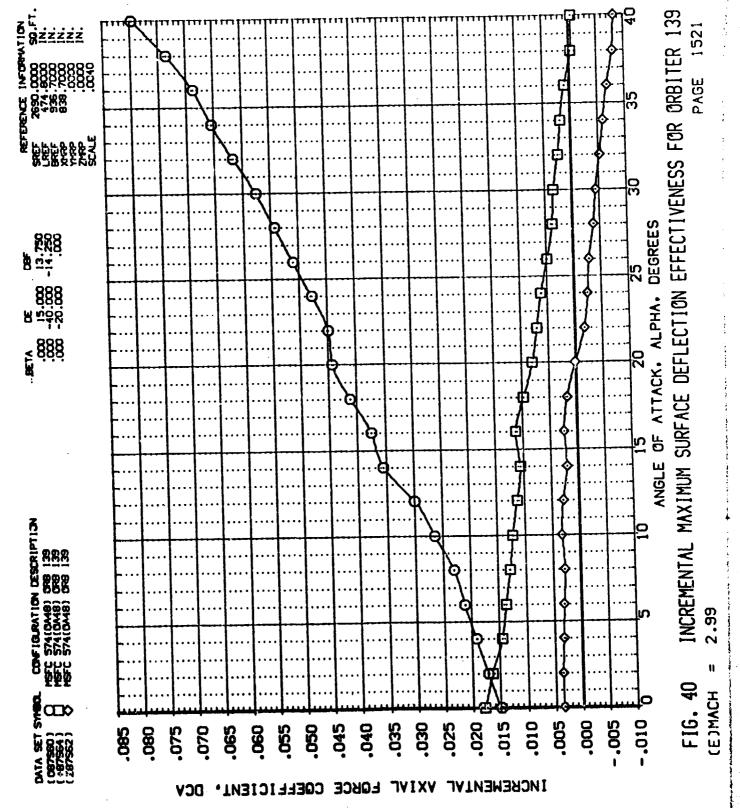


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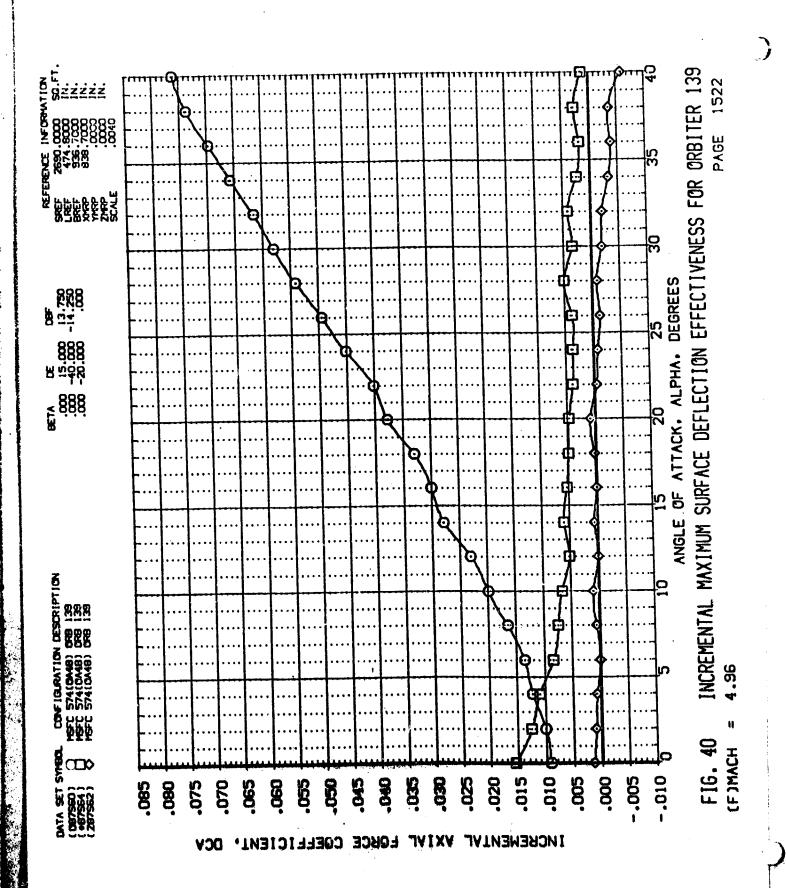




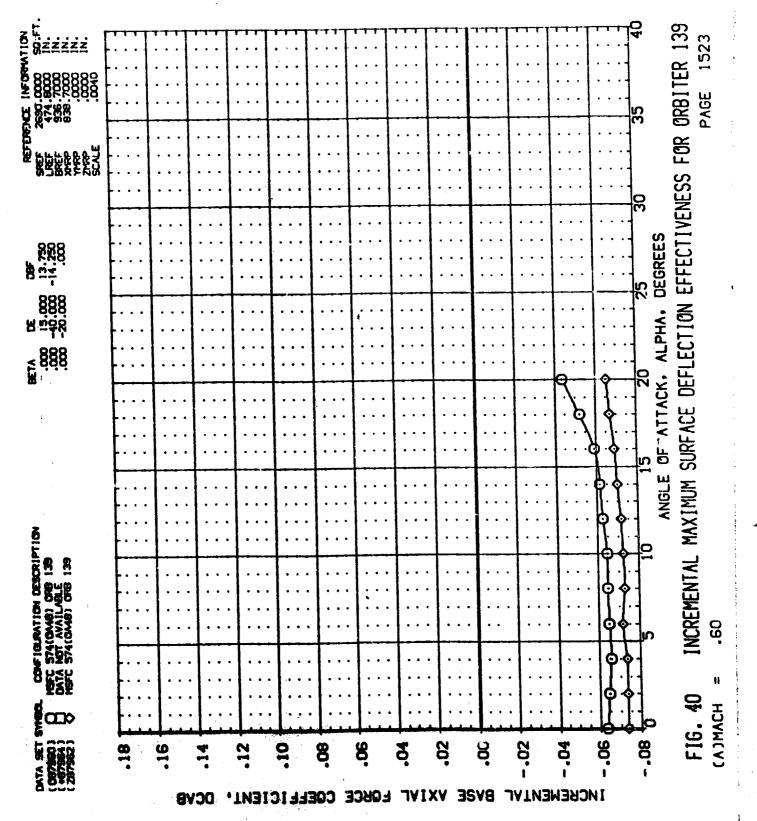


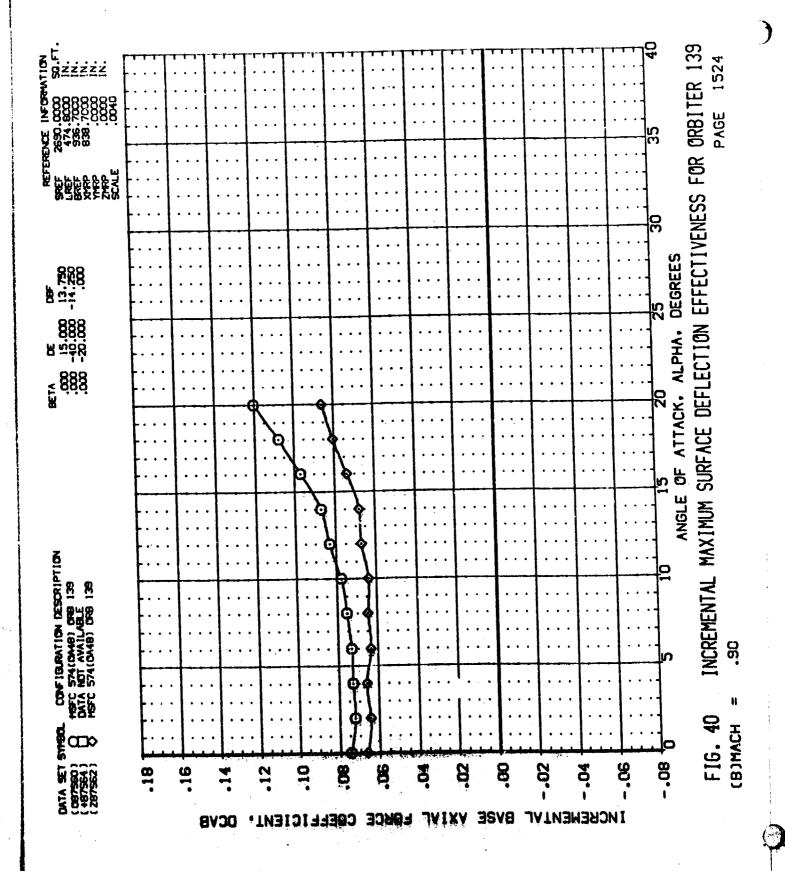


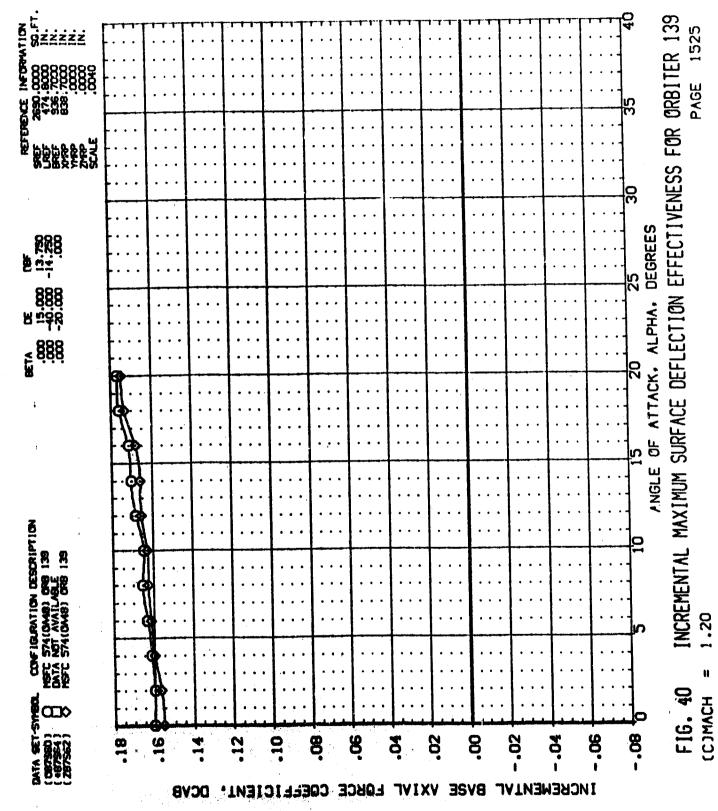
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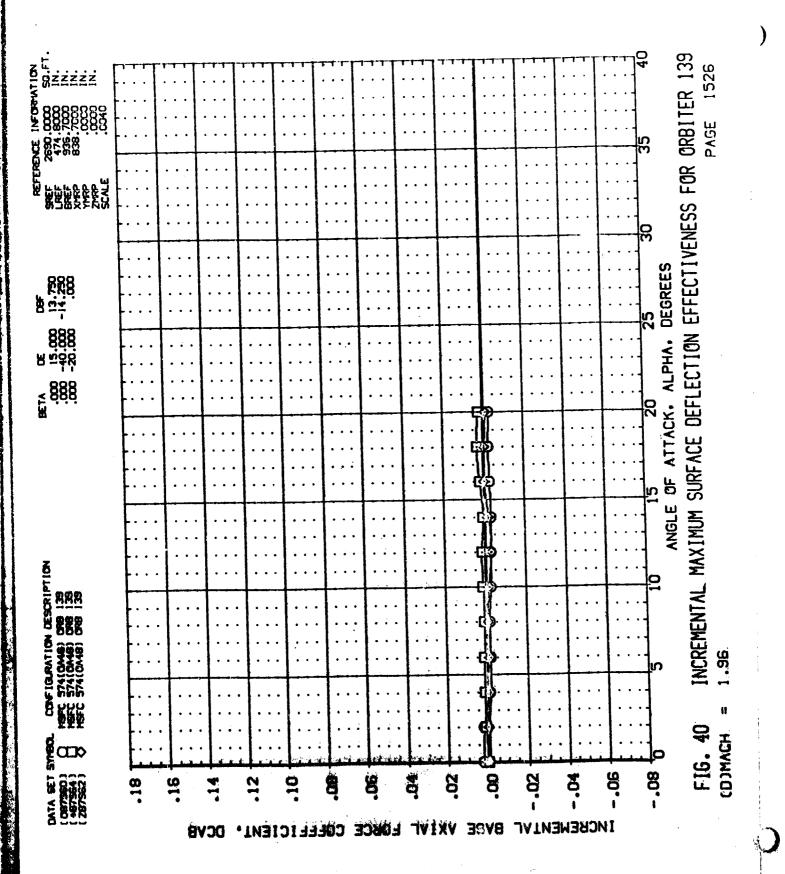




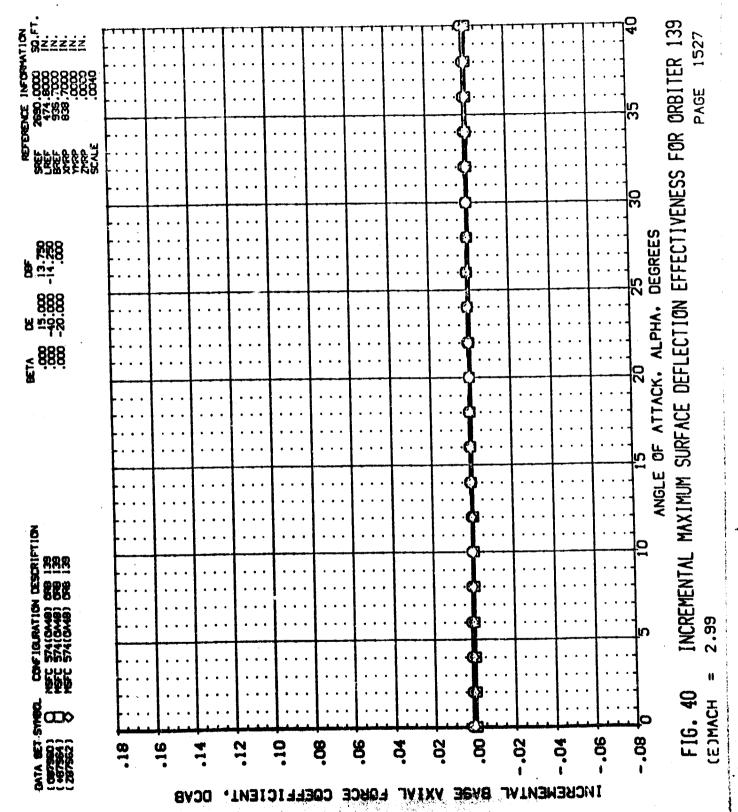


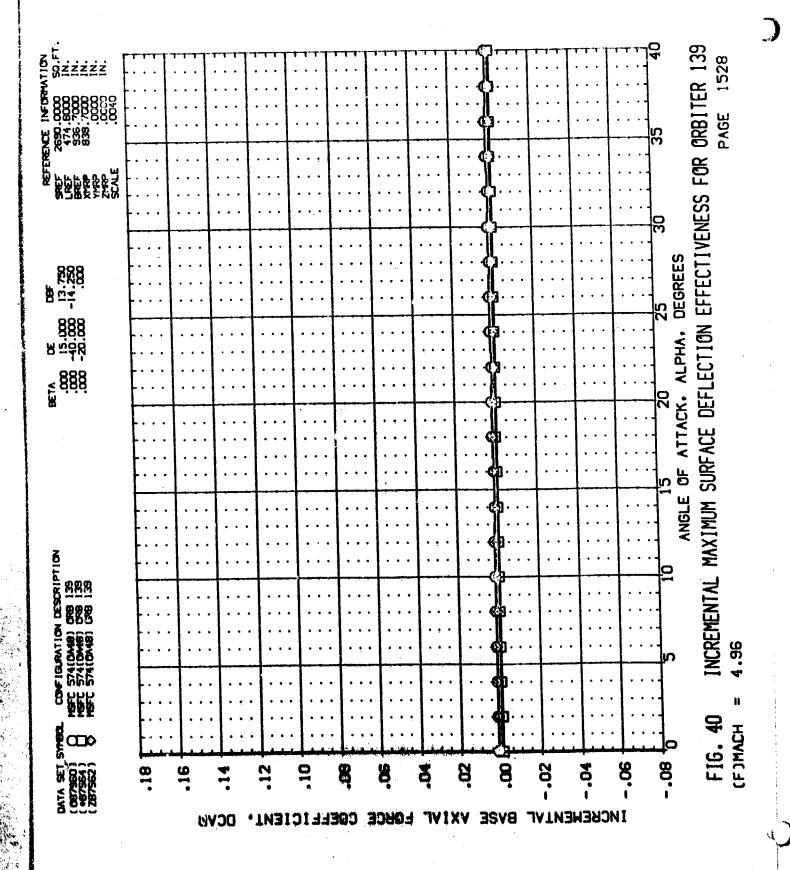




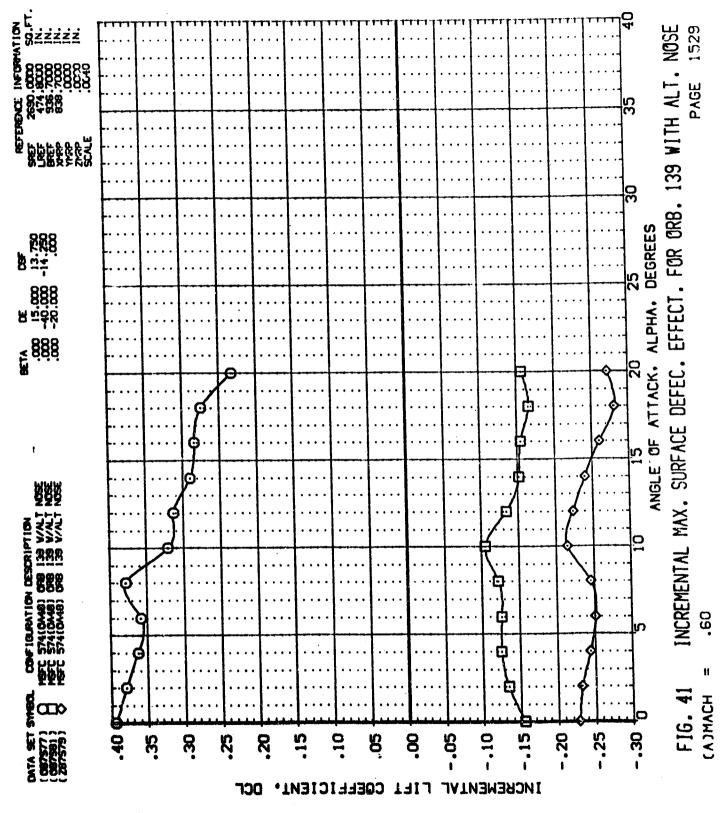


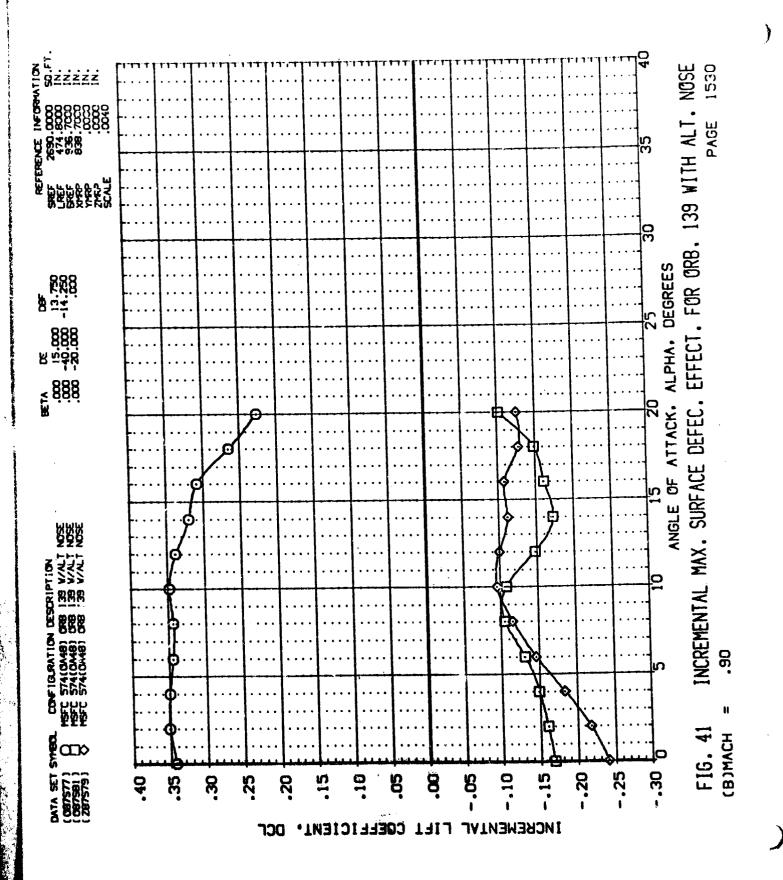






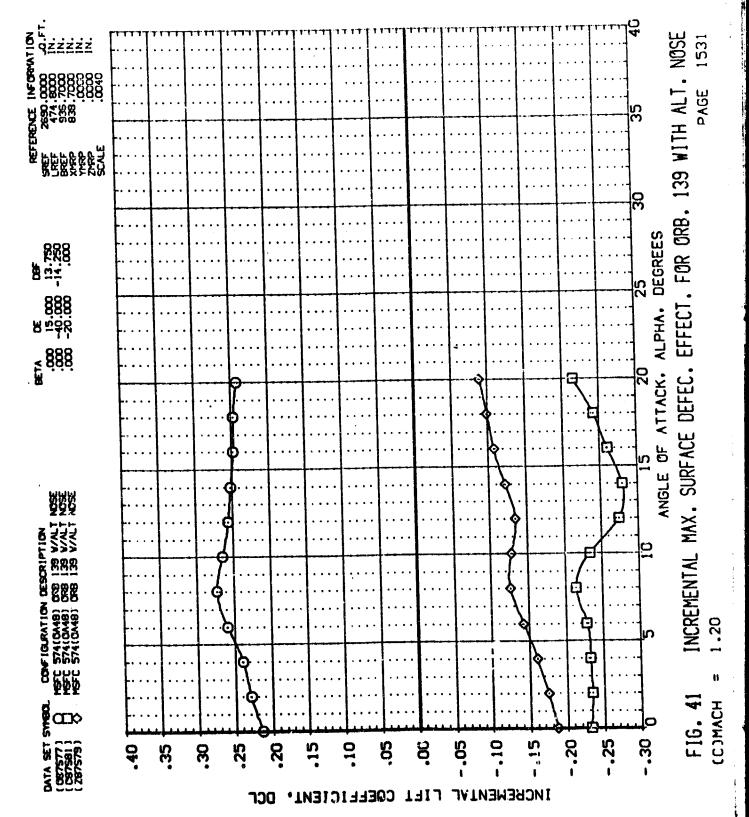


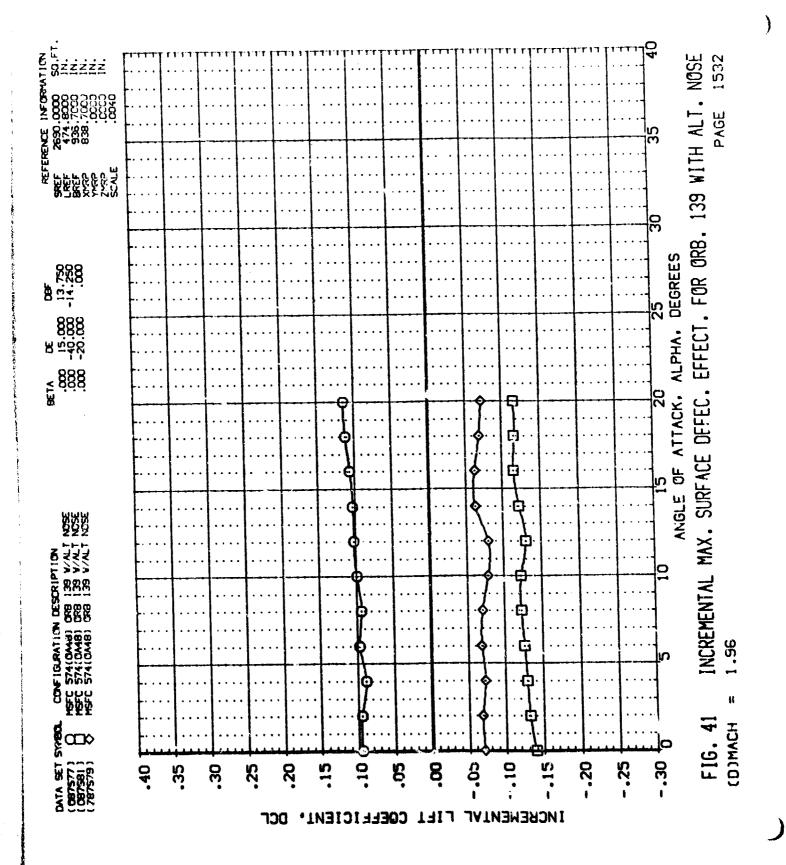




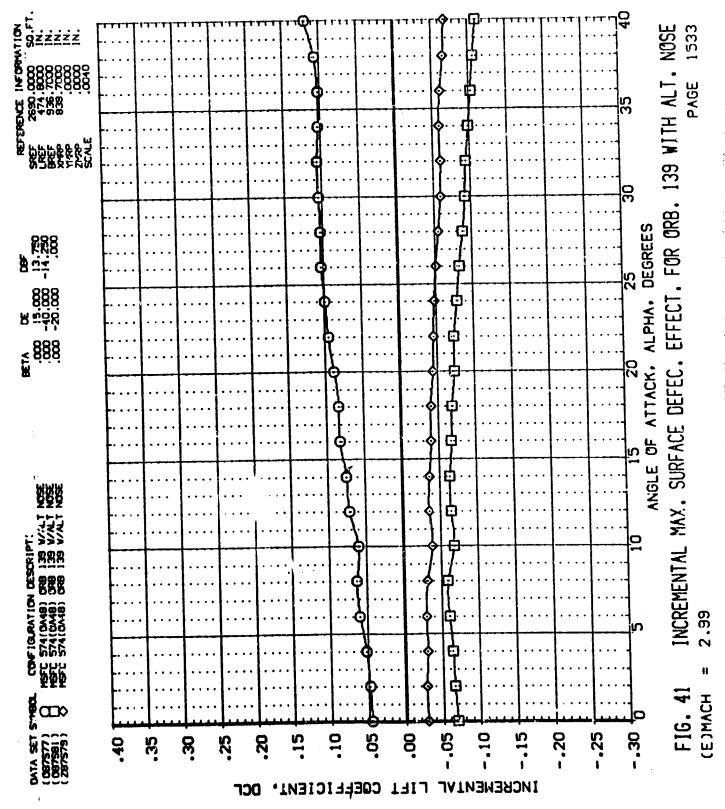


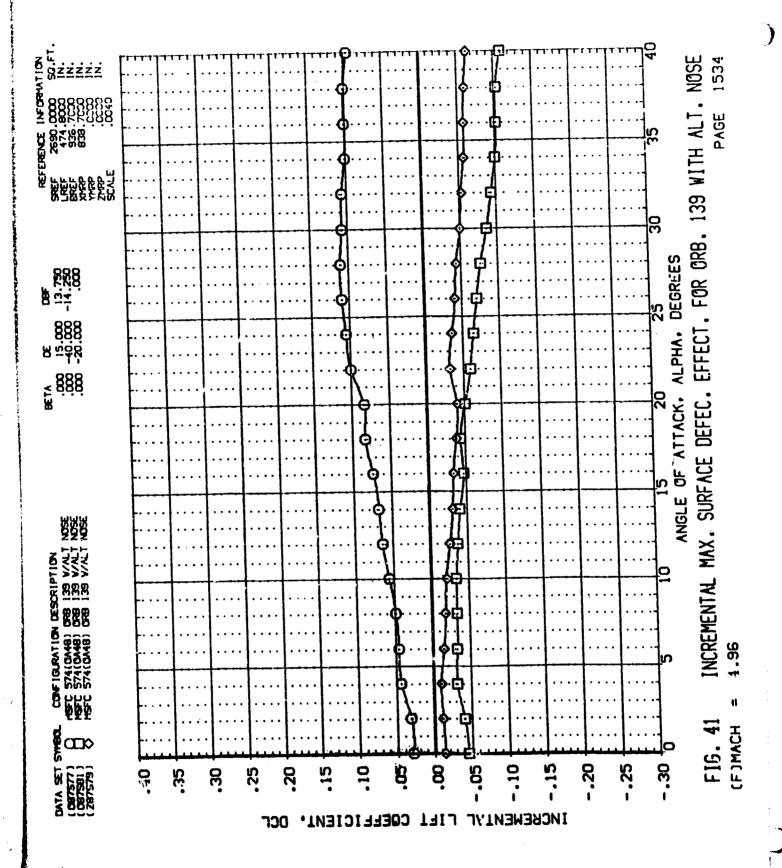
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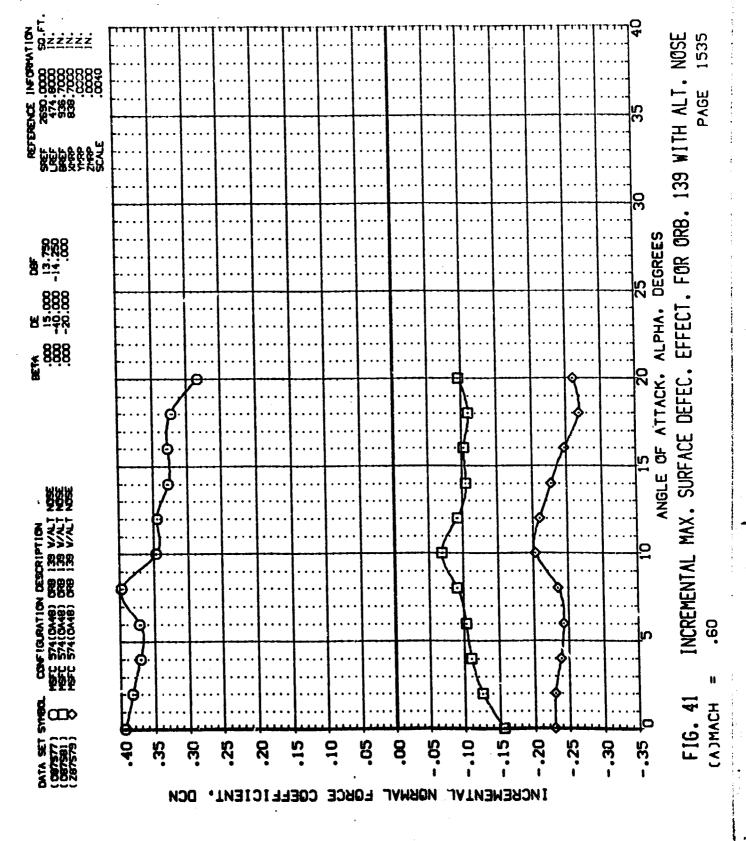


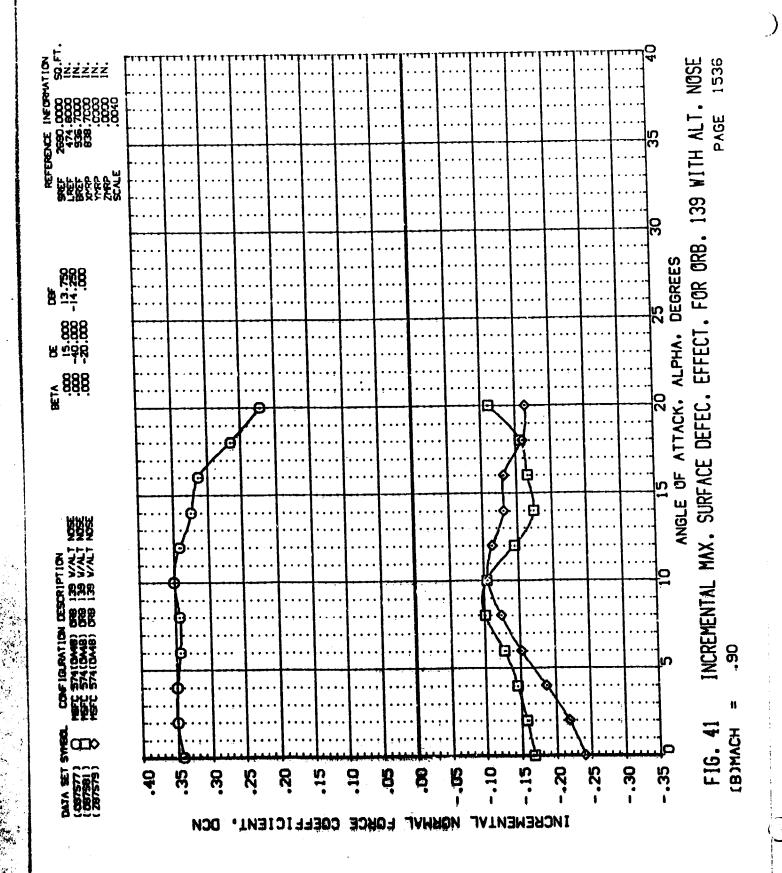






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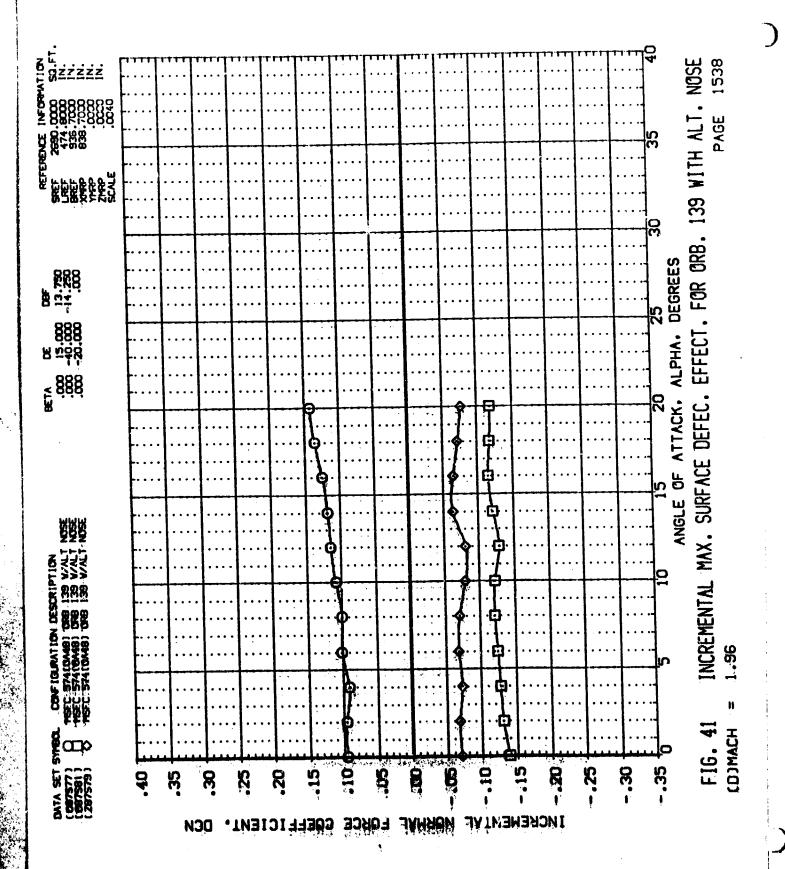
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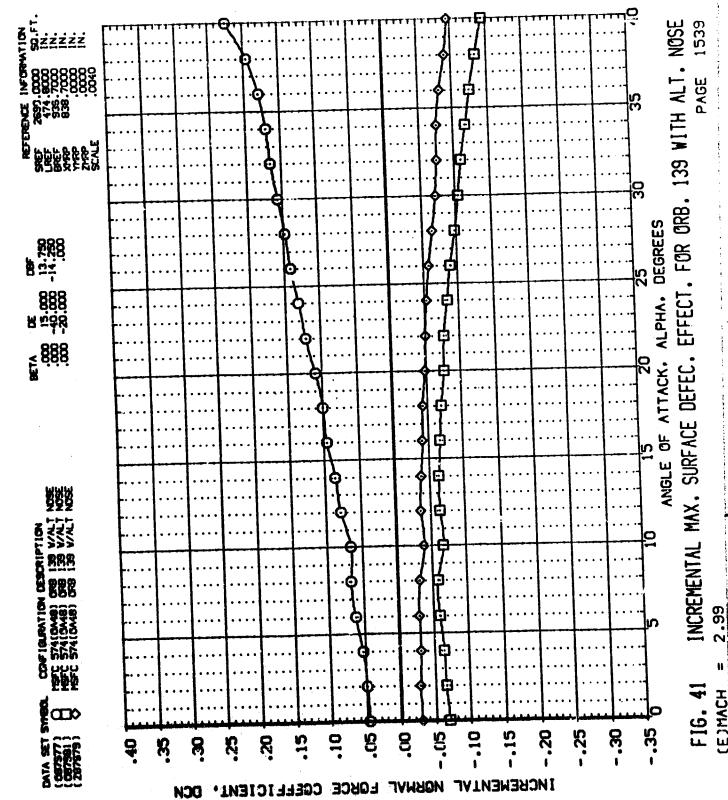
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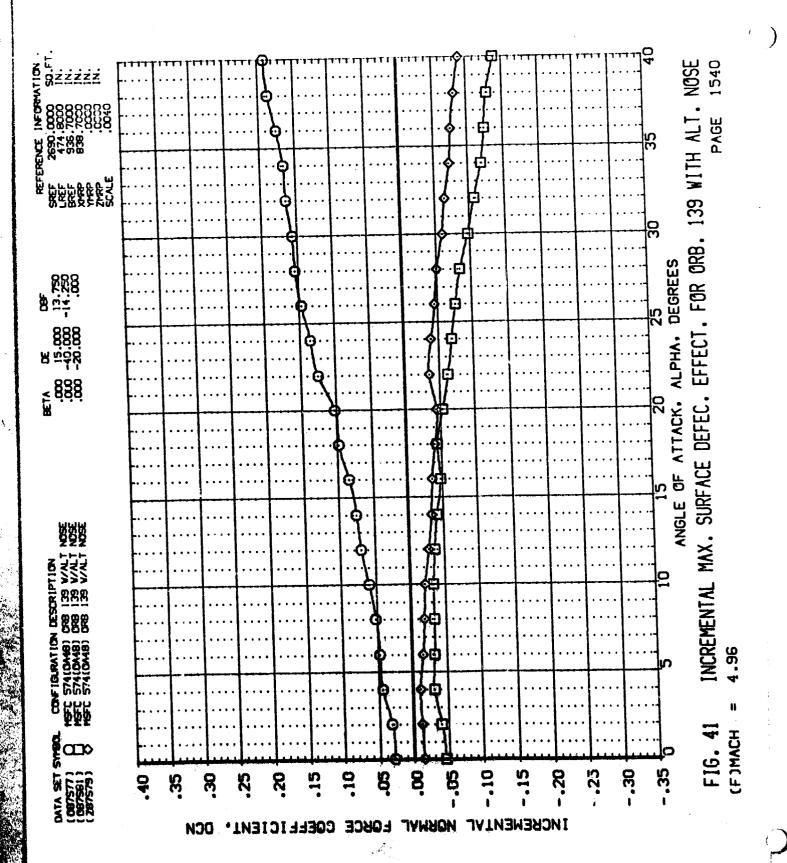




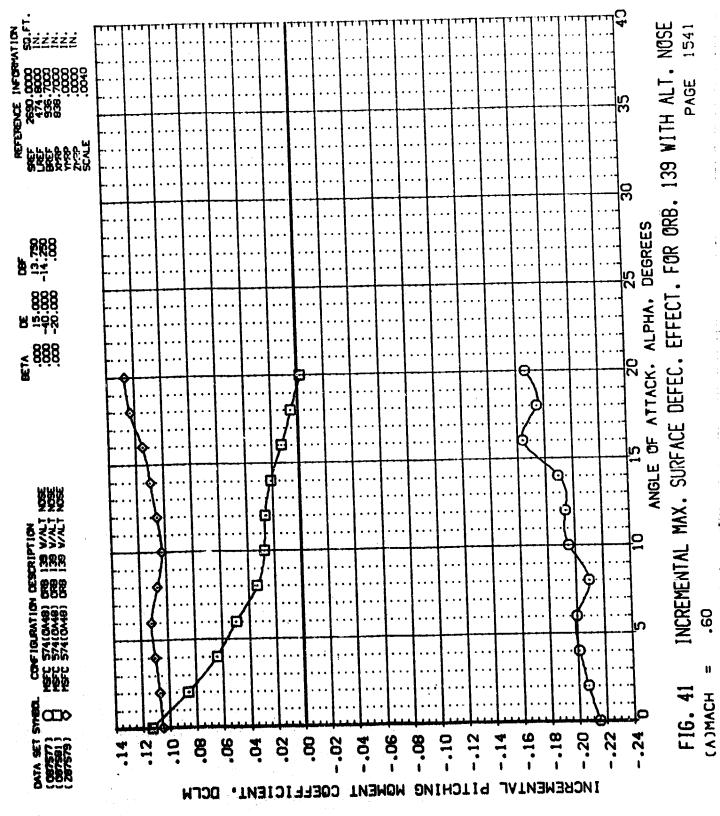
(E)MACH

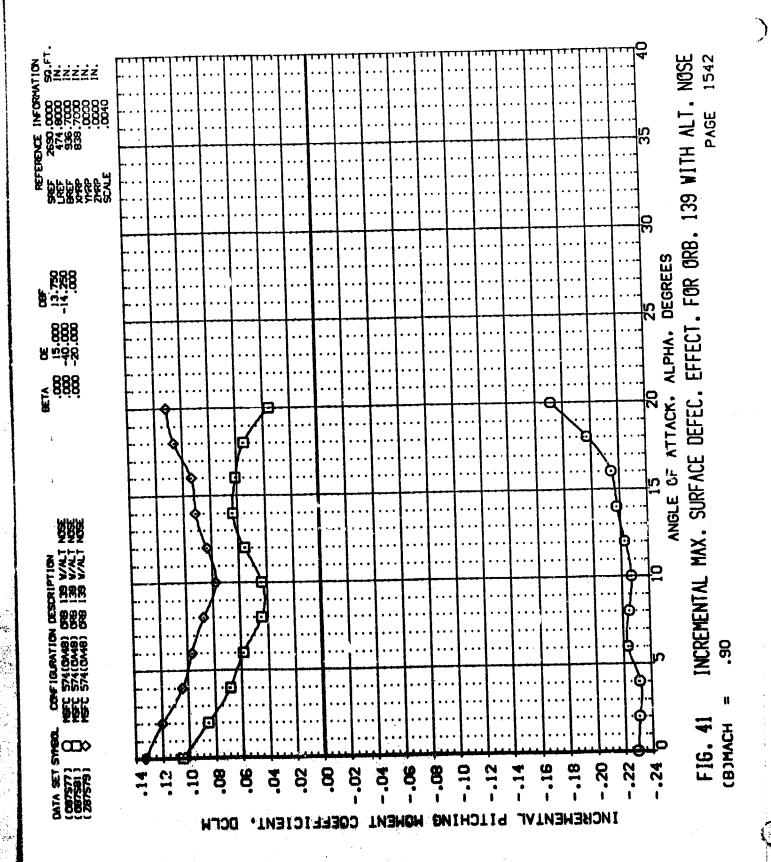


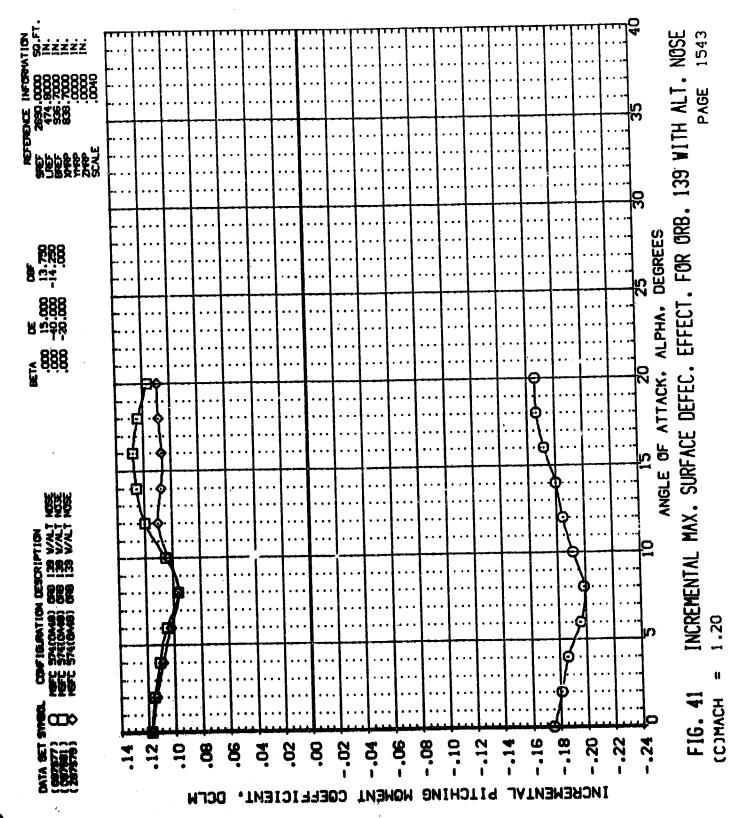
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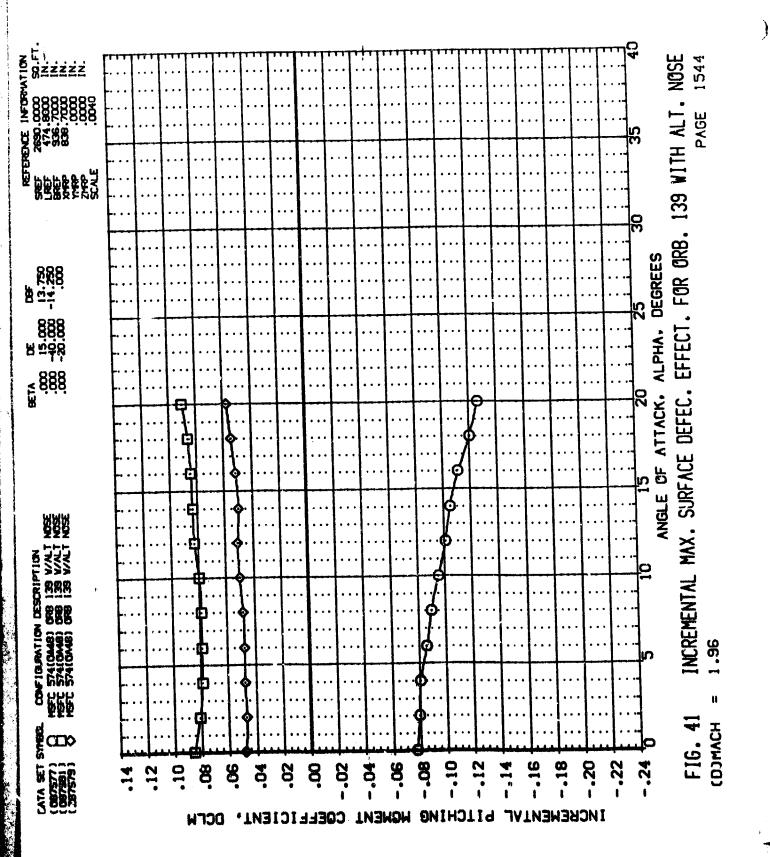


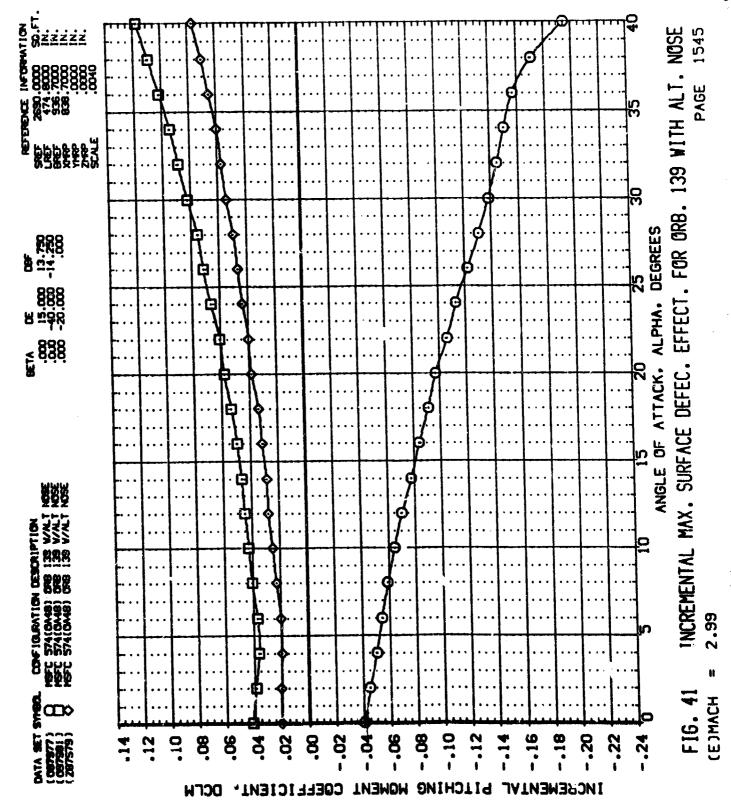


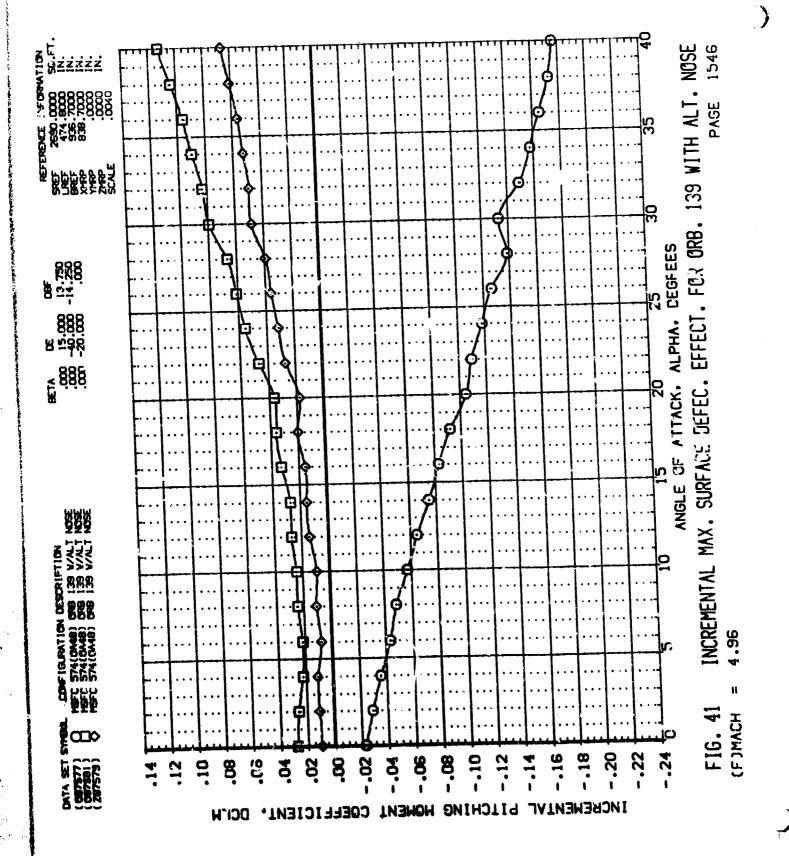






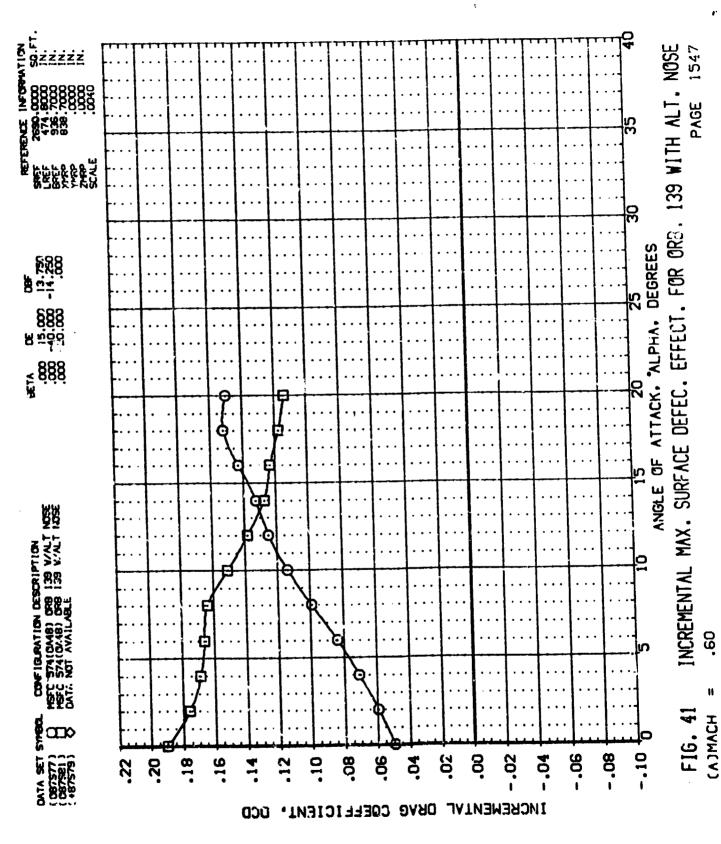


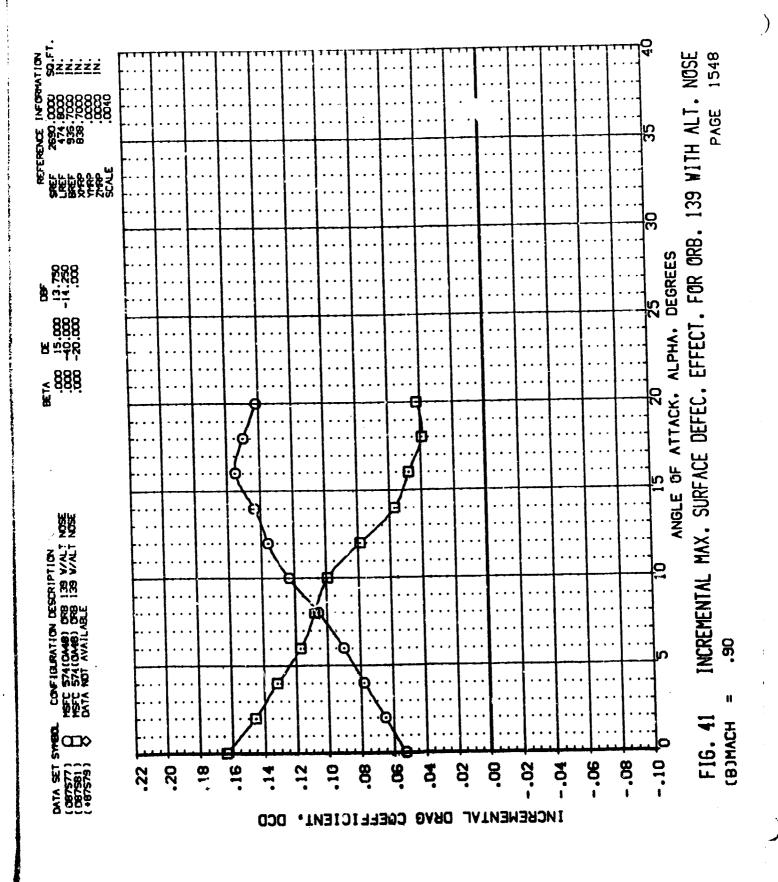




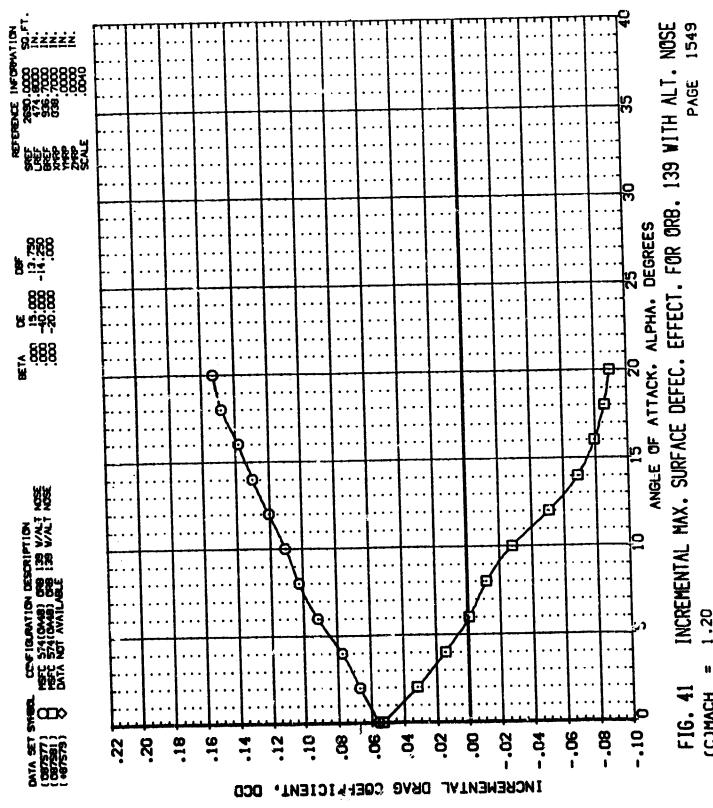


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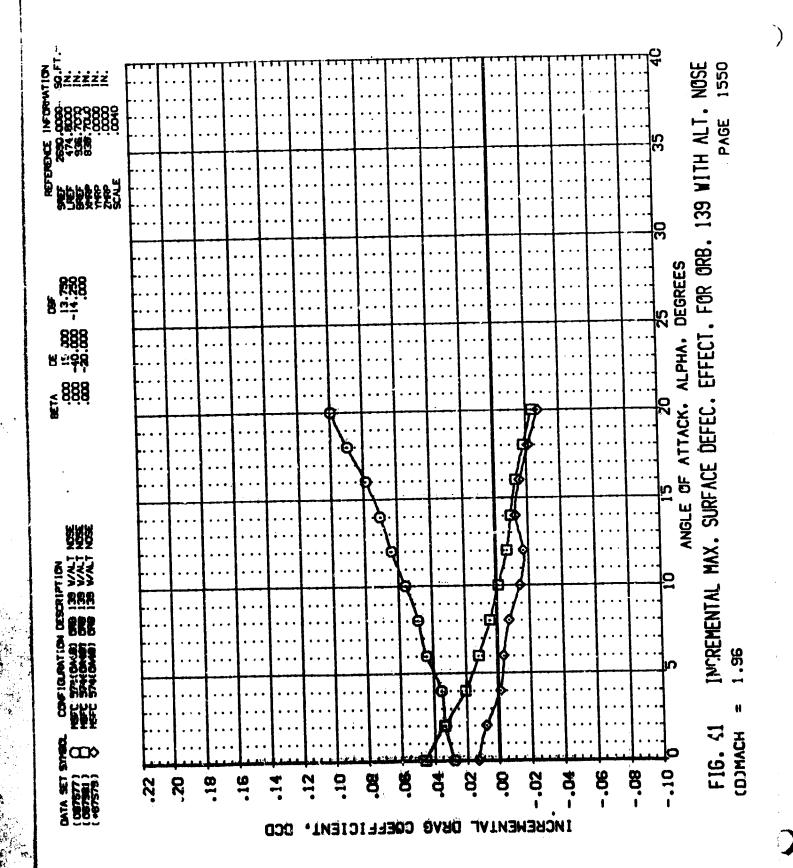




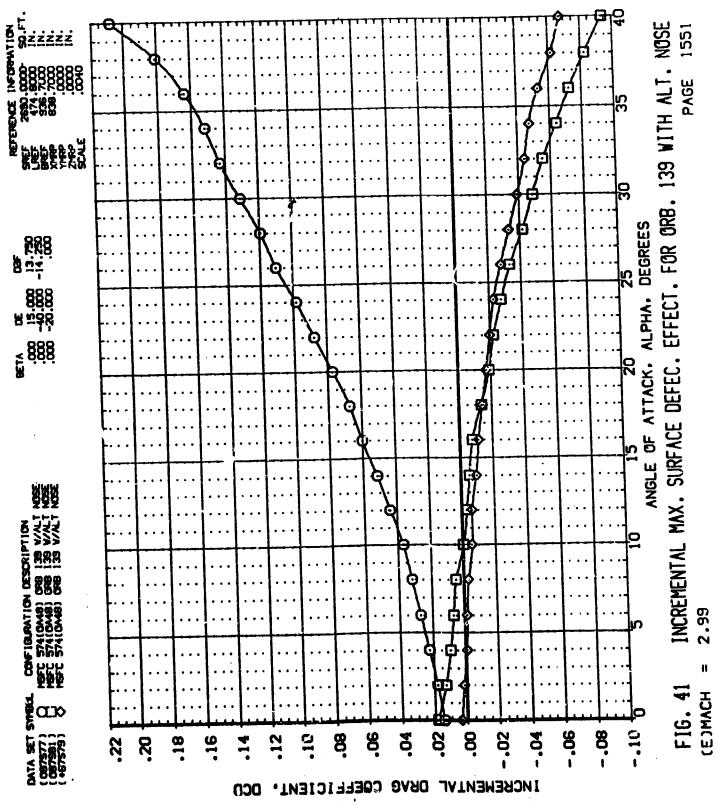


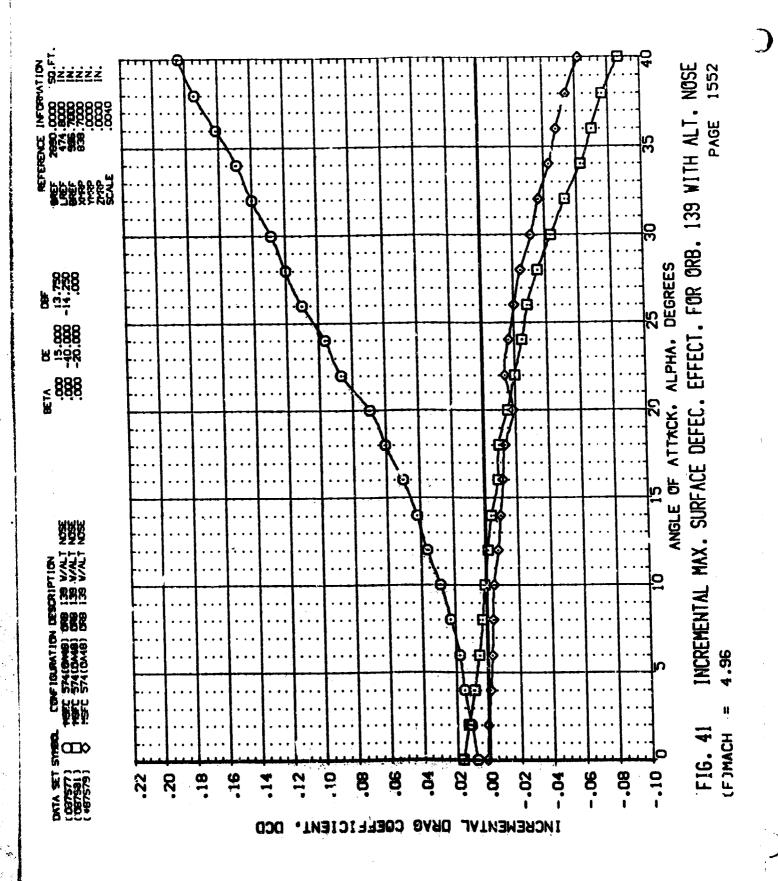


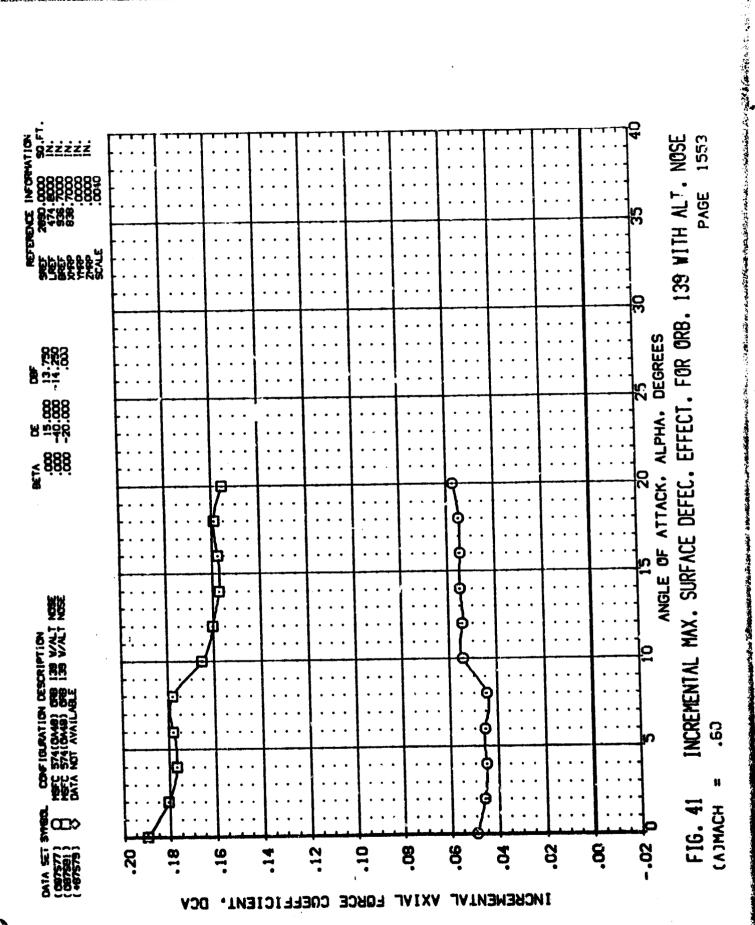
(C)MACH

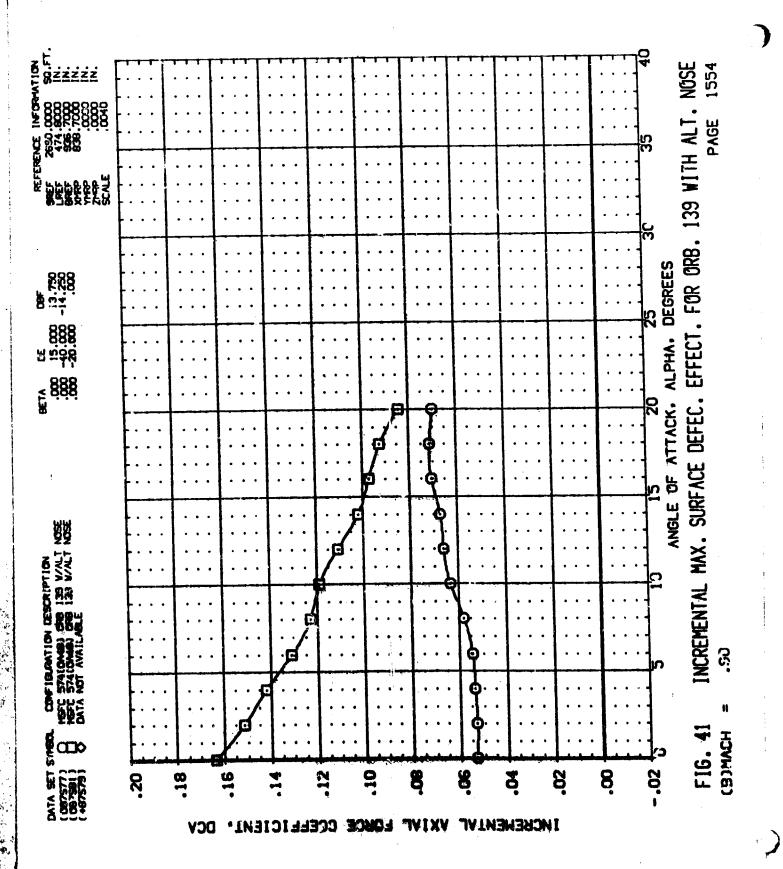




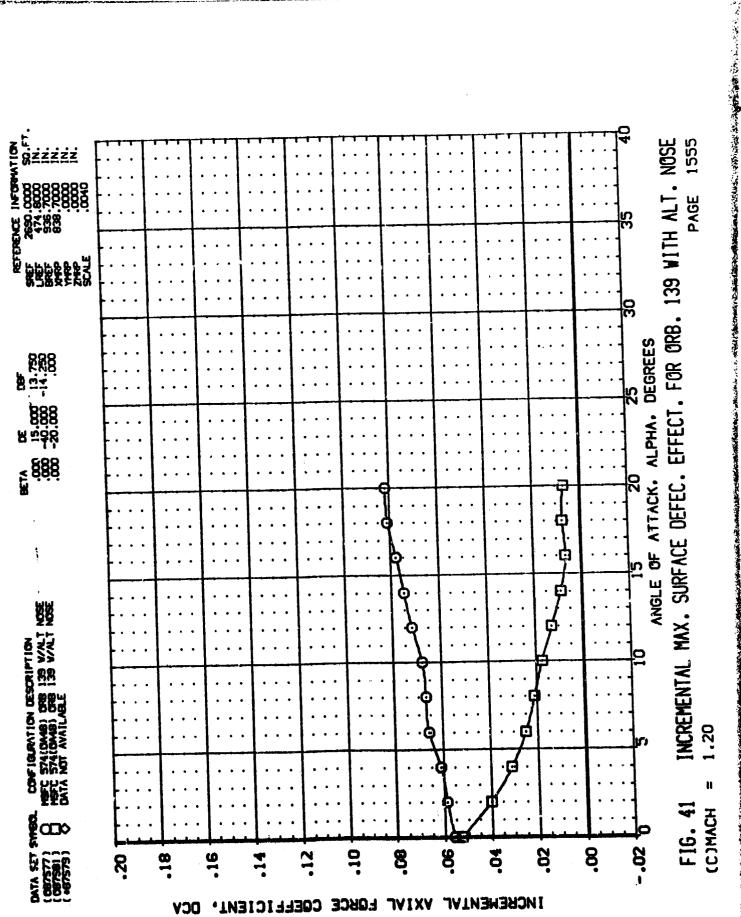


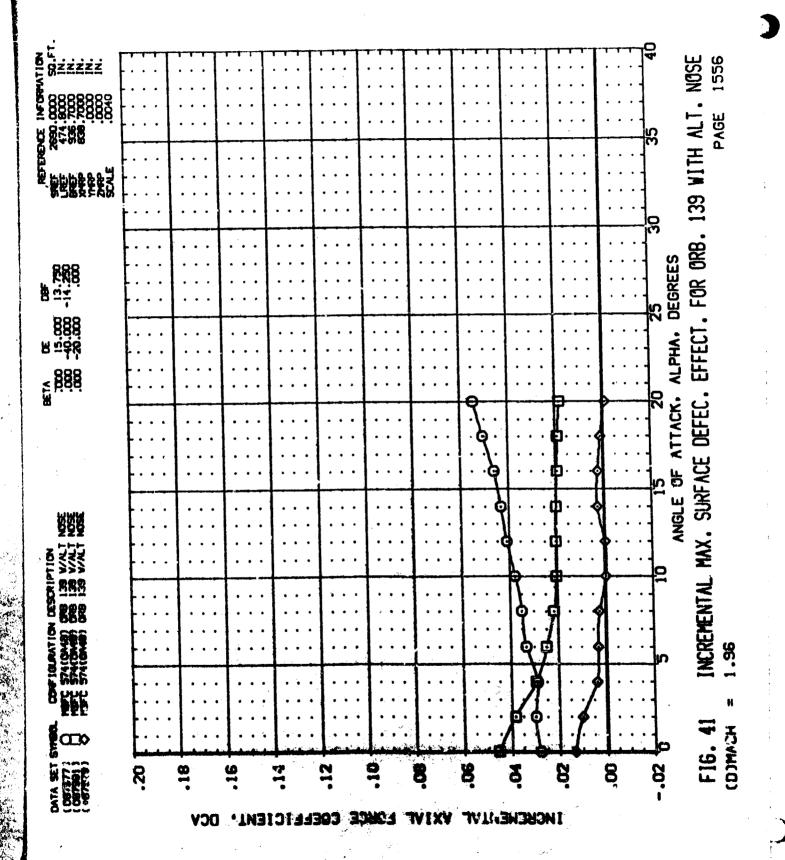






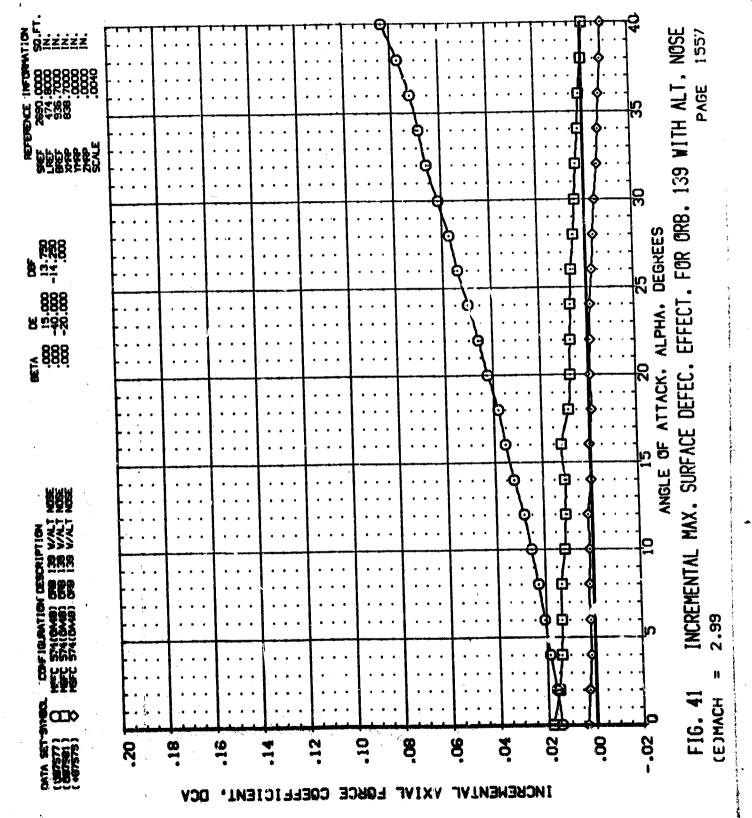


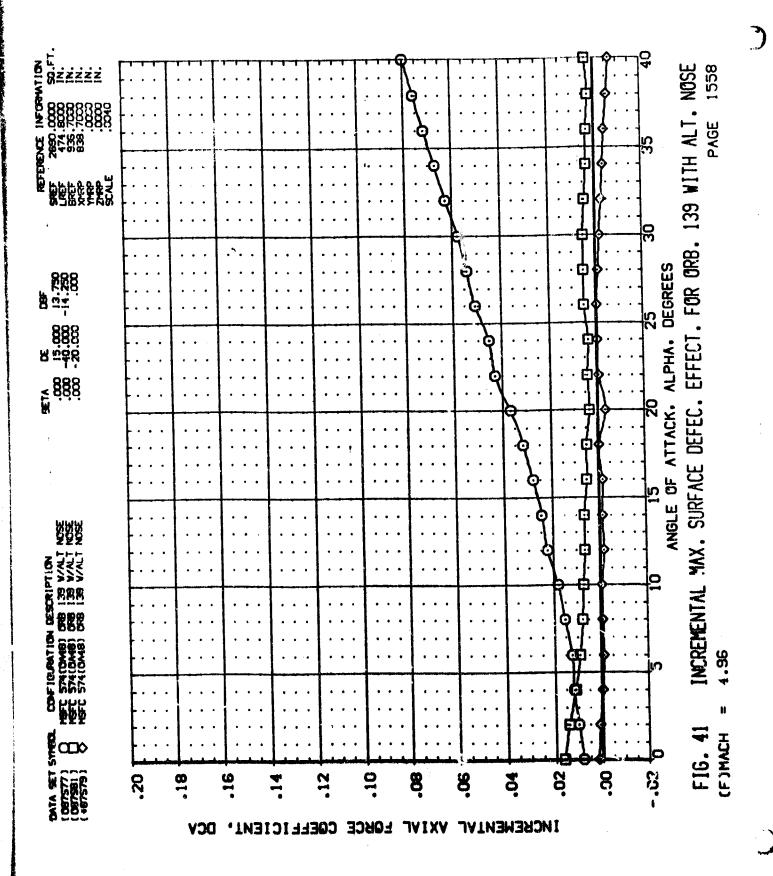






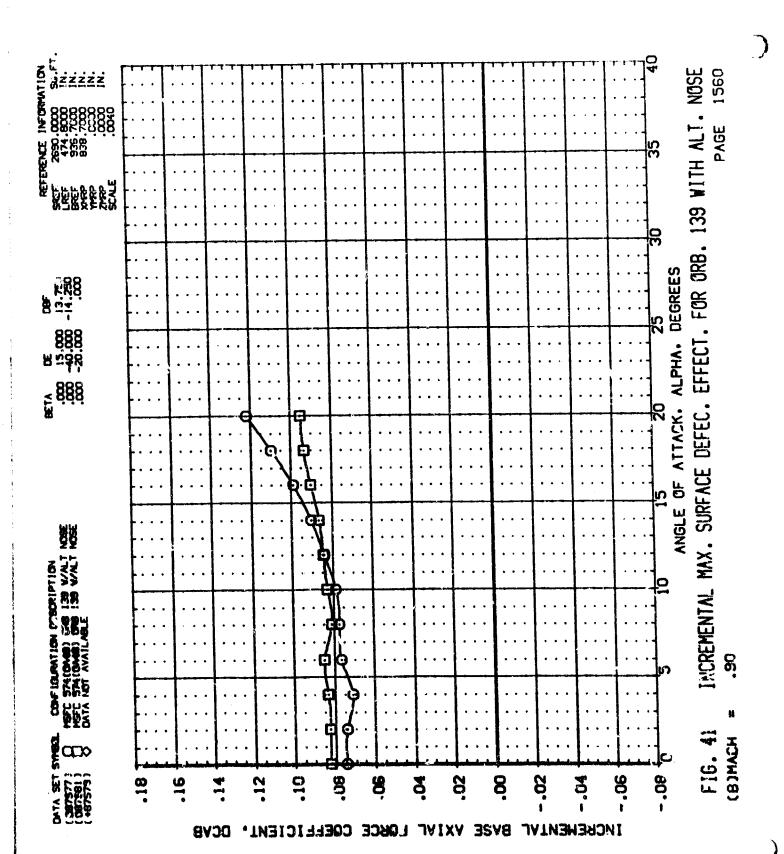
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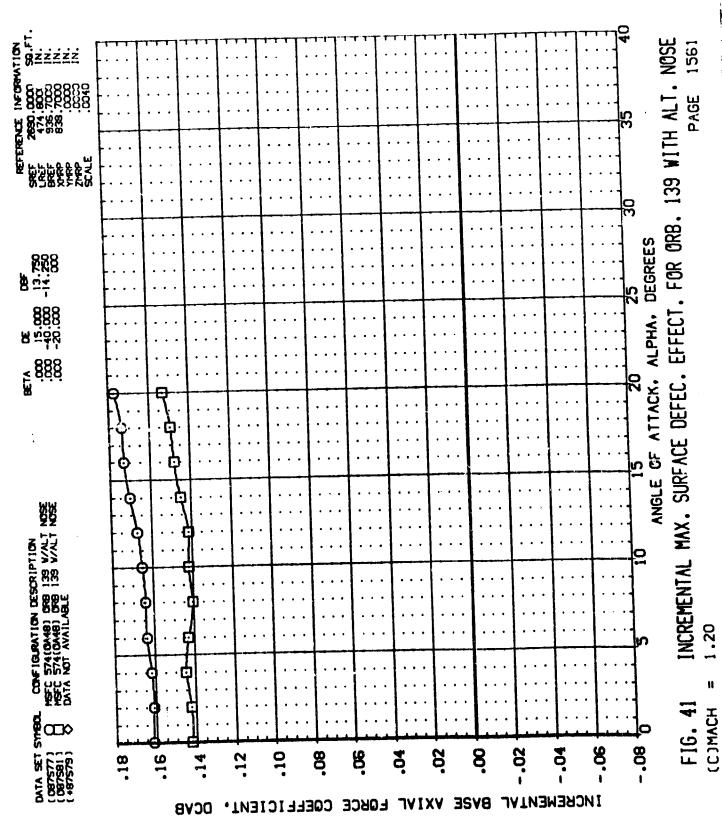


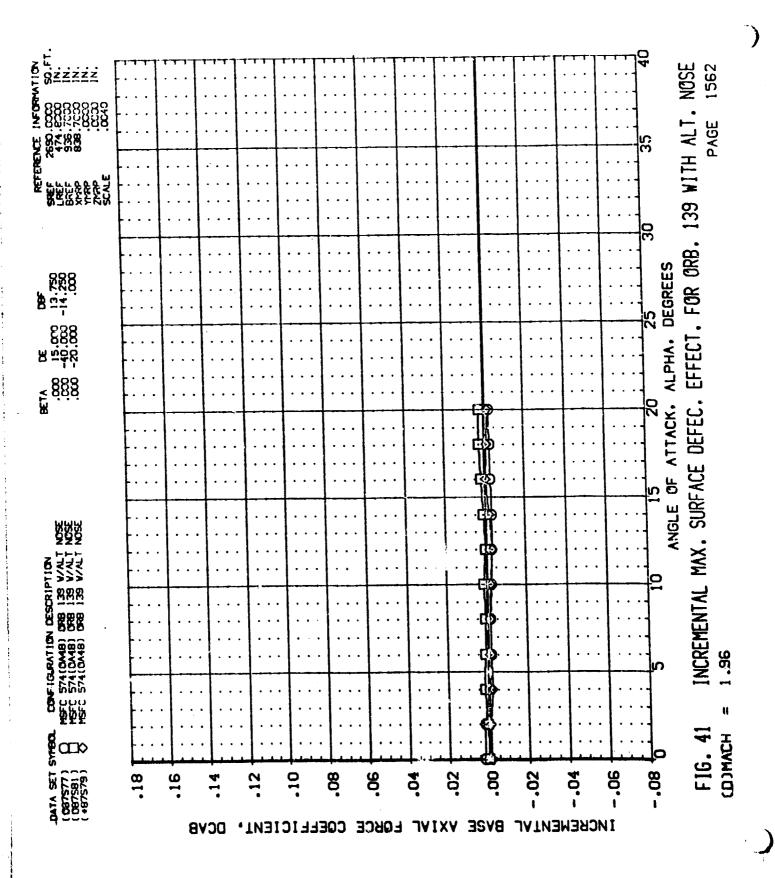
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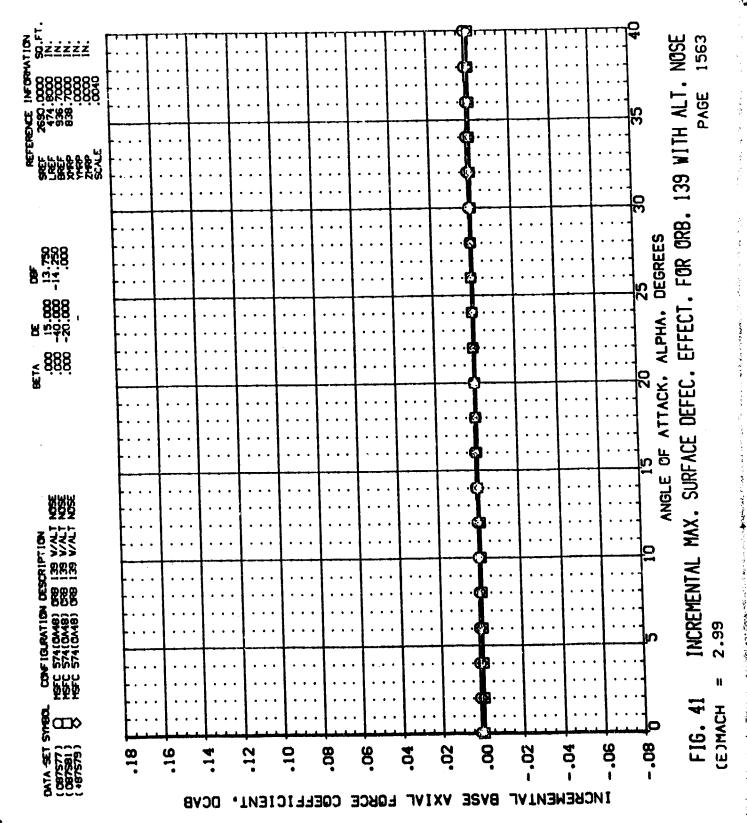




<u>.</u>

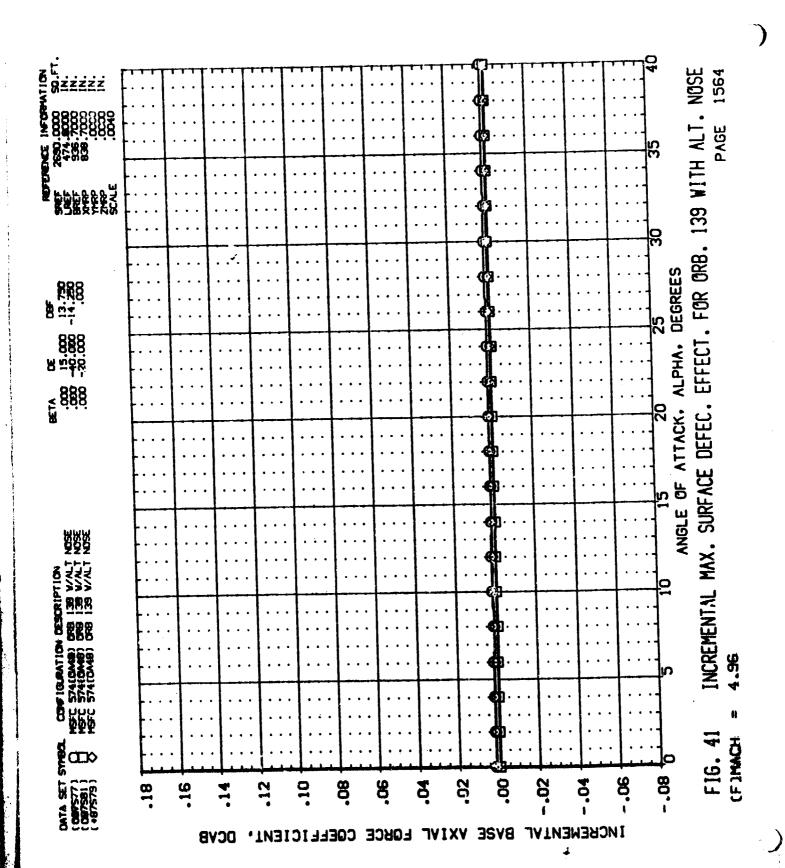






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APPENDIX

TABULATED SOURCE DATA

Plotted data listings available on request from the Data Management System.

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	PARAMETRIC DATA	BETA = .000 ELEVTR = .000 ATURON = .000 BDFLAP = .000 SPDERK = 999.990 BLADFT = 2.000
MSFC 574 (OA48) ORB 1398		6.7000 IN. .0000 IN. .0000 IN.
¥		2
	REFERENCE DATA	0.0000 90.FT. 108F E 636.TUDO IN. 4.0000 IN. YHRF E .0000 IN. 6.TUDO IN. ZMF E .0000 IN.

	CM MUN		\$ * 7*	4.46 CRAD	RADIENT INTERVAL		-5.00/	2.00			
ALPAA 760 1.170 5.250 7.460 11.590	00 1120 1015	024 04400 04200 04200 04200 04200 04200 04200 04200 04200 04200		CTN .00140 .00140 .00160 .00180 .00220 .00220 .00180 .00180 .00220	00000. 000000. 000000. 000000. 000000. 000000	CA - 0.5320 - 0.5320 - 0.6330 - 0.6330		.01530 .01530 .01540 .01540 .01570 .01770 .02440 .02440 .01550	C	.09470 .09470 .09580 .09580 .00600 .12290 .12290 .16930 .26930 .96900	-E.04410 33110 1.42200 E.99390 4.39900 4.39900 3.60770 3.60770 2.93210 2.93210 4.41610
GRACIENT	.04326	8	00132	• nonze							

		RUN NO.		1/ 0	RNL "	4.90 GRAD	RADIENT IN	INTERVAL =	-9.00 <i>/</i>		2.00			
	:	i	3		č	N	Ħ		<	3		đ	8	5
ğ	1	5	5 8			0110	1000		07439	Ğ.		.14130	08860.	1.43730
	9.80	.19330	5				9000		06850	Ş		06520	06940	72940
	 08.	06990					5000		08640	8		03130	.06560	36480
1.93	1.130	-,02960	3			92.00	0		08360	8		00100	.06420	.09360
	3.170	.01290	20.		occon-	octon.			0.960	g		.04780	.08440	. 56620
.938	5.170	.05520	20.		000				07570	8		09350	02990	1.06030
4.978	7.230	.10390	20.			Carrier .			07450	Ę		.14090	.09640	1.43140
4.956	9.240	.15490	5			20000			07200	8		.19400	.11210	1.72990
4.158	11.270	2125	6		-,00370	C ACCO	.000		09020	8		.24660	.13140	1.69290
4.93	13,300	27240	B.		08800	01000-	000		06910	6		.30710	.15600	1.96660
4.959	15,350	.33740				02000-	.0003		08890	8		.36760	.18720	1.96290
4.959	17,380	.40080			00000	Carren -	9000		09790	8		.42449	. 22050	1.92390
4.959	19.330 GRADIENT	.02233	.00109		00021	0000	20003		00144	S	.00003	.02061	.00106	.21801

DATE ES SEP 73	27 T3	TABU	TABULATED SOURCE DATA - MSFC TUT 574	E DATA - M	SFC TAT 574					PAGE	e H
			MSFC C	MSFC 574 (0A46) ORB 1398	ORB 1396				(Retooz)	(17 SEP 73	r E
	REFERENCE DATA	CE DATA							PARAMETRIC DATA	: DATA	
	2000.0000 30.FT.	.r.	Ħ	636.7355 IN.				BETA =	000	ELEVTR =	000
- 25	474.8000 IM	٠.	H	.N1 0000				A1LRON =	000.	BDFLAP =	000.
	936.7000 IN	ZNERP	N	.NI GOCG.				SPDBRK =	999.990	BLADPT =	\$.000
BCALE =	0900*								•		
		RUN NO.	MO. 3/ 0	# 7×#	4.46 GRA	GRADIENT INTERVAL =	WAL = -5.00/	8.99			
i i	AFTA	8	ð	Շ	£	ŧ	5	3	ರ	8	5
.367	14.980	.70440	.06250	02460	.00230	00010	.01860	.02190	.67600	.19670	3,40150
786.	4.570	.14570	06900*	01310	06100	.00310	04670	.01460	.14150	03050	2.43100
.98.		CASCA.	COMED.	01490	00700	00000	.03860	.01330	23100	.06530	3.53470
.387		30840	.03430	01900	.02290	.00300	00000	.01440	.34120	01000*	4.25700
- 587		48440	.0312D	0000	07 100.	.00340	.01680	.01680	.45320	.10270	4.41100
-36.	12,780	.57790	09930	-,02060	.00190	06000.	cocac.	00610.	. 55910	.14740	3.79190
		. 01001	06230	02430	.00230	00370	.01850	02020	GOOTS.	.19700	3,40000
.967	16.940	.61500	00130	02550	.00160	00940	.01760	06230*	.77450	.25430	3.04460
. 597	19.040	03966	01900	03470	.00270	00240	06600*	.02530	.93650	.33410	2.80860
786.	21.130	1.13620	00670	04600	.00370	.00360	07900	06820	1.05650	.41910	2.52660
. 30 7	22.22	1.21780	.01010	03490	.00220	00170	.00645	.03720	1.11560	.48790	2.20000
786.	23.160	1.20600	09560	02360	00030	00910	.01560	03860.	1.06490	.52700	2.05850
	MADIDA	.05430	00133	00114	, 00004	00031	00273	0.000	.05194	.01365	.09431
	,	CH NE	6.2	748	4.91 GRA	DIENT INTER	GRADIENT INTERVAL = -5.DO/	8.8			
ğ	454	8	ş	Շ	ž	ਂ ਰ	ð	3	ሪ	e	5
4.933	4.470	.03830	02140	00420	02000	00010	.06140	06000	.08280	.06420	36660
4.938	6.37	.06270	02030	-,00450	06000	02000	orrre.	.00100	.07390	07900	.65000
4.93	6.420	.13160	-,02049	50540	ogoco.	00020	.07490	02100	.11930	.n934D	1.27730
4.93	10,430	18720	01760	-,05660	09000	00080	.07300	.00140	.17090	.10570	1.61610
4.939	12,490	.24620	01780	00430	06000	00040	06170.	.00100	.22460	.12350	1.81973
4.959	14.510	.31010	01870	-,0560	-, 90020		ocazo.	02200	.28260	.14540	1.94290
4.939	16.540	.37510	02000	00620	-,00040	0009	.06910	02200	.33990	.17300	1.96410
4:4.7	18.570	.44800	02230	00760	-,00020	00119	.06750	.00240	.40320	.20670	1.95040
4.939	20.630	. 52500	-,02430	-, 02650	-, DC:020	22030	06700	09200	.46770	.24770	1.66620
4.920	22.660	.60340	02660	00730	06000 *-	00100	06290.	.00260	.53149	.29340	1.61110
4.499	24.6ED	02299	-,03030	01230	-,00110	09000*-	.06490	.09260	. 59310	.34320	1.72790
4.934	14,500	31050	02040	00760	COCCOC.	00070	.06930	.00280	.26320	.14490	1.95460
	GRADIENT	GGGGG-	cacao*	caaca.	00000	conno.	.00000	00000	CHARACT.	00000	.0000

(17 SEP 73)	41
(R87006)	PARAMETRIC DATA
1398 a 1398	
MSFC 574 (OA48) ORB	

	REFERENCE DATA	E DATA							PARAPETRIC ONIN	<u>.</u>	
t	13 0000 0000	NOO.	H	636.7000 IN.				BETA =	000	ELEVTR =	000
	474.6000 IN. 938.7000 IN.	-	. # #	.0000 IN.				ATLRON = SPEERK =	066.866	BOFLAP = BLADPT =	.000
ł		S.	RUN NO. 5/	5/ 0 RWL =	4.50 GRA	GRADIENT INTERVAL ≃	VAL = -5.00/	97. 3.00			
į	;	8	2	č	Š	ŧ	ฮ	CAB	Ь	e	5
ş		5	546	•	01100	.00270	.05340	01910.	D9960	.05430	-1.63320
			2,30	•	01100	.00310	.05250	.01950	07100.	.05250	04280*
	ş	9011	02600	_	.00150	00000	.04930	.02020	.10740	.05610	1.91330
	5	00014	03550		02,00	. 50260	04170	.02010	.20690	.06240	3,51330
	7.750	32140	.03330	Ī	00200	.00260	.03120	.01960	.31430	.07439	4.22950
8	0.960	43690	00620.		06100	.0320	00220	.01950	.42850	09960.	4.42460
8	11.970	.56030	.02510		OLIDO -	-,00040	00220	.02120	.54360	.13780	3.94310
8	14.070	.67460	C394D		.00140	.00350	.02540	.02380	.64610	.18870	3,43350
6	16.170	.77930	505370		01100.	-,00220	.02860	.02990	.74040	.24480	3,02460
	18.300	05250	06210.	·	.00130	.00140	.02320	.03300	.87785	.31490	2.78740
	30.36	1.09500	ODZ69		.00220	.00350	.02180	.03880	1.01970	40170	2.53610
8	0.66	43760	.03250	·	.00210	.00310	.02250	00020	.42730	.09720	4.39370
	CRADIENT	.05164	00159	•	01000	10000	00101	.00027	.05073	.00045	.91603
		2	RUN NO. 6	D RN/L =	4.89 GRM	GRADIENT INTERVAL = -5.00/	VAL = -5.0	00.5.00			
Ş	47.6	5	2	5	Š	현	5	3	ሪ	8	2
		.03600	06330		0,000	00000	corea.	.00259	05600	.08750	63990
		1818	02500		09000	.00030	.08440	.00310	02320	06390	-,27689
	5	08430	01490	_	-,00060	.00030	.06100	.00400	.01940	.06230	.23650
		COOST	08080		00000	00000	.07719	.00450	.06140	.06330	.73690
	40	11789	02080	1	.00030	cocco.	.07380	.00460	.10715	06980.	1.20960
	0 6	18.221	01769		02000	01000	.07230	.00460	.15790	06660.	1.58150
940	14.560	22955	07610	•	00000	00020	02020	. OO 490	.21072	.11490	1.83420
940	13.600	29110	00020-		-,00020	-,00030	.06849	.00500	.26680	.13500	
9	14,850	35530	06020*-		. 2003	00030	.06800	.00500	.32370	.16139	•••
980	17,690	.42480	02210		G2000.	-,00019	.06630	.00510	.38460	.19230	1.99950
020	19.640	49690	02470		-,00050	-, 00039	.06850	.63510	.44600	.22679	1.94970
949	9.530	.17280	0178D		00000	ceceu.	.07180	.00510	.15850	05660*	1.59310
	CRADIENT	.02055	.00217		00033	-,00000	-,00152	.00038	11610.	00131	.22225

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	Ľ	TABUL	ATED SOURCE	TABULATED SOURCE DATA " MSFC TWI 3/4	74 THE 214						
			MSFC	MSFC 574 (OA48) ORB 1398	28 139B				(Re7007)	7) (17 SE	٠ د
		1							PARAMETRIC DATA	DATA	
	REFERENCE DATA	E DATA									į
		3	# A38.7	NI OCOZ. BYA					86°	ELEVIR 3	
n (124 error 34.			.NI COOC.					300.		113,000
	936,7000 18.		# 8	.NI GOOG.				SPUSIES =	333.330		
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		-CM MA		# 7/8	4.46 GRAC	GRADIENT INTERVAL =	AL = -5.00/	2.00			
					į	į	8	87	d	e	5
Š	AFTA	5	Ē	Շ	CYN	9 2		.03660	1.04360	.41680	2.49150
106.	20.980	1.12430	01190	02970	05000	0100	02610	03640	1.10040		2.26240
.997	22.950	1.20230	02100	00000	OSCION.	00000	.02530	.04700	1.07940		2.03390
-984	24.970	06302.			00200	02120	00070	06030	.97260	.53880	1.00000
796.	26.92	1.11120	0.0000	-,01640	07000	00430	04870	.06830	00626		1.63990
186.	016-82	1.0000		01570	-,00010	00340	.04390	.07409	.95600		010601
ř.	00.00	1.14130	09560	-,01810	.00030	00370	.03740	07300	1.02090		24710
	33.05		0.500	00610	02100	00490	.03370	0520	1.09610	04694	0000
r.	011.68	1.36640	02780	02720	.00240	00220	.03110	070.	1.06710		1.17530
			00060	02250	00200	00230	.02930	00060	1.13960	•	06501.1
Ř		1.54140	10430	-,02500	.00120	00330	.02360	09860	1.14340		1.58610
į		1.14460	.10430	01830	00020	00320	04300	06310.	2000		-,065en
Ř	GRADIEM	27610.	67,000.	-,00023	-,00003	50000	.00028	erson.			
			•	I VNG	4.87 GRA	CANDIENT INTERVAL = -5.00/	VAL = -5.0	00.8 /00			
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	:	8	X	Շ	Š	턴	5	3	ฮ	-	
O .		5	06230	00490	06000:-	00030	.07100	00100	.45720		06304
	2	99900	02720	00500	09000:-	00020	02020	00130			1.72570
	24.250	67350	02950	-,00600	06000*-	00010	Deser.	oraco.	0.00		3.64640
989	26.300	75680	03410	99709	00160	-,00020	.06570	00000	66.80		1.55460
	2	06490	03780	C090G*-	00130	01000	00590	Control of the Contro	0.004		
	27.05	.94270	04350	01060	G6000°-	-,00019	.96489	. USB4.00			
		1.03890	05020	01240	06000*-	00040	.06280	CANC.			•
	3	1.13390	05390	01297	06000*-	-,00060	.06160	.00470			
4.00		1.23200	-,06339	01270	-,00050	00070	.06010	.00440			
4.039		12650	-,06860	01330	50140	07000	.05870	90439			
4.953	9	43690	06170	01600	00130	-,00060	.05880	.03420	-		• •
666.4	100	09576	-,04290	-, 00940	-, 00140	.00160	.06489	. 20.04 7.3			•
**	CRADIENT	.04518	00263	00056	-, 00001	-,00003	00064	71000	ace311*		

TABULATED SOURCE DATA - MSFC TMF 574

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#SFC

REFERENCE DATA

(R67508) (18 JUL 75)

	PARAMETRIC DATA
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FC 574 (0A48) OKB 1399	
574 (OA48	
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		9		IN.	BETA =	90.	.000 ELEVIR =	
b	. 2660.000 Set			The same	ATLRON =	360		
<u>.</u>	1 474,8520 IN.		••	יין הסכם:	SPCBRK =	999,990		
	94CF = 936.7000 IN.	2	01	·NI DOG.				
SCALE :	0700.							

	56890 56890 5.32490 5.77290 4.45330 4.56470 5.91790 5.91790 5.91790 5.91790 5.91790 6.51790 7.51790 7.51790 7.51790 7.51790
	.05460 .05460 .05460 .05690 .07520 .09930 .14600 .19660 .25490 .25660 .40630
	C
00.5 /	CAB .02610 .02720 .02640 .02640 .02740 .03100 .03100 .03100 .03240 .0340
AL = -5.00/	CA
CRADIENT INTERVAL =	
4.91 CRAD	.00250 .00220 .00220 .00210 .00240 .00240 .00190 .00480 .00480
RRAL =	CY0187001820018200192002120021200212003170034200342003420
D. 79/ 0	04430 04430 04610 04610 05810 05810 01480 01480 01480 01480
RCH NO.	00.000.000.000.000.000.000.000.000.000
	4.444 1.470 5.360 5.660 7.770 9.880 11.390 16.130 16.390 9.890 9.890
	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

		SUN NO.	õ	0 /0	RACE.	6.16 GRA	GRADIENT INTERVAL =	AL = -5.00/	3.6		
25. 26. 26. 26. 26. 26. 26. 26. 26. 26. 26	1.320 1.320 3.720 5.890 6.090 10.271 12.420 14.630 16.890 21.040	CA 00000 .14770 .26640 .36420 .30760 .64110 .410200 1.09290	90000000000000000	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000		CYN .00350 .00350 .00350 .00350 .00350 .00260 .00340 .00340 .00320	CBL .00140 .00160 .00050 .00050 00110 00110 00120 00160 00160	CACA490CA490CA40	CABce730ce730ce690ce690ce690ce690ce690ce690ce690ce410ce410ce410ce410ce640	 .06570 .06500 .07380 .07380 .11730 .11730 .26090 .26090 .26090 .26090 .32660 .32660	-1,35410 .34640 1,94000 2,83230 3,16450 3,16450 2,7920 2,56520 2,56520 2,35840 3,44140
	COVER	Acco.	•								

6.16 GRADIENT INTERVAL = -5.00/ 5.00

DATE SO SOF TO	8	TABUL	TABULATED SOURCE DATA - MSFC TMF 574	E DATA - ME	SPC TMT SI	2				PACE	•
			N. C.	HSFC 574 (0A48) ORB 1398	ORB 1396				(Re TODE)	(8) (16 JUL	ָ ה ה
	REPERENCE DATA	E DATA							PARAMETRIC DATA	DATA	
			ļ	;				E VAJ	000	ELEVTR =	000
	2000.000 80.	Ė	K. 969	858.7000 IN.				3	CCC.	BOSTAP =	000
5	474.8000 IM.		e (.0000 IN.					066.656		
	936.7500 IN.		š.	į							
		RUN ND.	0. 61/ 0	# 7/A	6.63	GRADIENT INTERVAL =	RVAL = -5.00/	5.93			
i		į	3	č	Ě	ŧ	ฮ	3	4	8	5
			04370	03490	09800	06000	.16890	.05640	.01000	.16850	05850
		06981	04530	01679	.00330		.16690	.05540	.13450	.17100	.78640
		or er a	01100	01830	00000	00000.	.16510	.05550	.26360	.16370	1.43490
		01504	09260	01990	.00360	02000.	.16140	.05620	.36350	.20360	1.86310
1.18		.35140	04410	02070	.00320	0,000 0	.15720	05730	.49300	.23150	P.12960
1.18	•	.65480	05790	02740	.00550	.00150	.15430	.05960	.61520	.27220	2.25980
1.50		78610	07780	02700	.00460	06100.	.15240	.06475	74130	.32540	2.27750
1.19		06539	09310	02490	oraco.	02100	.15060	08840	.65230	.38620	2.20690
1.196		1.04270	10200	02570	05200	06100:- 0	.14810	06690.	.95150	.45140	2,10770
1.19		1.14270	10510	02710	C6100.	00130	.14780	07570.	1.02760	. 52060	1.97420
		1.23780	-,10390	08720	C+100.	06100:- 0	.14480	09940	1.09770	. 56980	1.66110
1		07759.	05920	02770	.00560	06100.	.15450	02850.	.61900	.27300	2.26350
	5	57 HBC.	01284	00079	90000	4100014	00079	00021	.05869	.00355	. 31801
		1	3	7	5	CRADITAL INTERVAL = -5,00/	WAL = -5.0	5.00			
							!				
-	*	5	2	Շ	ŧ	ŧ	ฮ	3	ď	8	S
		03790	.01100	01410	CEEP.		.14270	.03060	03650	.14300	29570
1.0		006900	00040	-,01900	.00230	_	.14120	.03110	.04530	.14240	31820
1.932		.14210	05390	01620	ozzao.		.13839	.03060	1320	.14750	90090
1.022		23960	02530	01680	06100	020000 0	.13673	0690.	.22440	36070	1.39630
20.1		32380	03360	01650	07100.	000050	.12970	.02630	.30240	11400	1,13760
1.952	•	39960	037eD	01690	.00160	07000 0	.12320	.02770	.37100		3 1040
		49540	04225	01780	.00160	00100-0	.11970	.02760	.45800		:. 0 1820
46.1		.56620	04630	01630	.00149	00100 - 0	.11560	02620.	.53980	26/35	2.177960
250.1		.67730	05140	01910	carca.	01100 0	.11140	.03030	.61619		7.03560
		78030	05730	01819	05000	000119	.10890	.03120	. 70207		1.96370
366.1		.67420	06350	-,01789	00020	•	.10480	.03050	.77760	. 41300	1,86270
466		39640	-,03680	01790	06100	09000*- 0	.12145	.02750	.37050	0206T	1.94650
	\$.04245	30578	-,00050	-, poooo	\$1000°- 0	660 GG*-	. 00004	.03993	.00106	.27258

TABULATED SOURCE DATA - MSFC TAT 574 DATE 28 SEP 73

MSFC 374 (OA48) ORB 1398

000 BCTA = .000 ELEVTR = AILRON * .000 BOFLAP # SPCBRK = 999.990 PARAMETRIC DATA .NI GGG-.NI GGG-.NI GGG-REPERENCE DATA 2000,0000 90.FT. 474.0000 IN. 956.7000 IN. SKALE :

PLM NO. 18/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

Š	ACTE	5	ā	Շ	£	평	5	3	đ	8	9
2.980	540	07650	01490	050e5	. DOO40	.00045	.10930	.01740	04870	10980	44340
E. 990	1.410	or 100.	01420	00100	.00050	000000	.10763	01710.	-, 50065	10760	0.00610
2.990	3.480	01660.	D1540	-,00060	02000	07,000	.10460	06710.	.05270	10000	48820
2.980	5.540	.12115	01460	00060	00000	.00050	10030	.0179D	.11080	11150	06866
E.190	7.610	.18450	01790	00110	.00020	01000	31160.	01630	0001	12070	1.40820
2.990	9.600	.25130	02110	-, 50240	GNUGG"	00000	0,79370	.01900	.23190	.13470	1.72170
2.990	11.780	.32210	025320	00220	09000	oorkin.	.09140	coero.	.2967	15520	1.91110
2.950	13,630	.39110	02560	20290	00000	C1007.	09690*	.01820	.35830	.18067	1.98370
2.990	15.910	.46440	02740	00340	06000.	00000	.08690	.01800	.42270	.21100	2,00310
2.990	17.970	.54010	03190	00419	00000	00000	.06530	.01800	.48740	24780	1.96630
2.930	19.960	.61600	03550	00520	.0000	00000	.00300	.01810	.55060	.28830	1.91000
2.990	9.690	.25520	02200	00249	.00040	eccec.	09360,	.01820	.23570	.13540	1.74080
	CRADIENT	.02721	-,00015	.00005	00005	00002	00118	.00012	.02536	-,00044	.23298

RUN NO. 19/ D RN/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

500 05650 05650	02700 02660 01960 02130 02060	00000.	.00090 .00060 .00030 .00010 .00040	02000. 02000. 00000. 00000.	.06290. .06290. .06770. .0770.	.00390 .00390 .00410	05770	.08600	67160
		-,00100 -,00000 -,00010 -,00010	.00060 .00030 .00010 .00040	02000.	.06290 .06030 .07770 .07570	.00390 .00400 .00410	-,02310	.08240	
.06070 .06780 .11740		.00000 00010 .00020 00010	.00030 .00040 .00100	00000. 00000. 00030.	.06030 .07720 .07570	.00410 .00410	.01580		77107
.56780 .11745 .17030		-,00010 .00020 -,00010	.00010 .00040 .00100	00000.	05770. 07570. 07570.	.00410		.08140	01981.
.11745		.0001	.00040	.00030	07570.	,00220	. Docum	08330	.72180
.17030		-,0001	.00100	00010	07270.		.19689	.08840	1.20719
		-				02400	.15590	06660	1.55990
.22720		- 0000	COCCU.	00000	CACTO.	.00430	.20850	.11450	07618.1
29960		-, 00320	01000.	00030	.56630	.00439	.26599	.13260	2,00489
.35670		00170	0.7000	-,00050	.06830	. 90446	.32510	.16210	2.00560
.42690		00315	.00030	00070	.06670	.00440	.38640	05561.	1.99820
.49750		00319	.0000	0.000	.06669	.00430	.44610	.23000	1.93940
.16970		00150	.00039	-,09020	.07200	.00440	.15540	01660.	1.56850
.02026		.00023	500015	.00003	00133	\$0000	.51885	05117	.22181

(Re7008) (18 JUL 73)

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TABULATED SOURCE DATA - MSFC TUT 574	
DATE 20 9CP 73	

PAGE

(Re7009) (16 JUL 73)	PARAMETRIC DATA	BETA = .000 ELEVTR = .000 ALLRON = .000 BDFLAP = .000 SPDBRK = \$99,990
INDUCATION STATE S		10. YMRP = 838,7000 IN. IN. YMRP = .0000 IN. IN. ZMRP = .0000 IN.
DATE 20 MEP 75	REFERENCE DATA	#### # \$590,000 90.8 LME # 474,000 IN. BWE # 936,700 IN.

Character 1,14310												
### CALL PROPERTY COUNTY COUNT	į	***************************************	8	3	۲	Š	평	5	3	ರ	8	5
1,19970 1,19	5				03910	.00460	-,00020	02020	.04580	1.05990	.42660	2.47260
### Colored Co	Ŗ	20.00			5	000	01500	.01990	09670	1.12460	.49620	2.25760
1.00600 1.00		000.22	01067.1	08680	0.43.0	06-200	00540	.02670	09660.	1.07250	. 52930	2.02610
26.910 1.07550	R :	24.10	Oregi-T	2000	08840	0.570	01270	02070	.06810	.95080	.52783	1.60130
1,1570, 1,1570, 1,150,	•	26.91	1.00000	00000	00000	02000	09200	02970	.07550	.91900	.56050	1.63970
93.000 1.23960 109700001800001800 109500 109500 1090700 170820 170		016.03	06610-1		- Disens	Carry .	02500	06190	07940	.97030	.63160	1.53630
35.050 1.20500 0.056000160001700 .005500 0.05200 1.09570 .76190 155.050 1.20570 0.0570001040 .00510 0.05570 1.105700 .77190 1.25200 1.20570 1.2057001040 .00510 0.05700 1.10570 .57150 1.20570 1.20570 1.20570 1.20570 1.20570 1.20570 1.20570 1.10570 1.2		6.0	oner:	00000	00000	- 00140	00480	02820	.07640	1.01620	.70620	1.43760
\$55.530 1.5252	\$	53.050	1,23900		0	0.100	08200	03500	02280	1.05020	.78190	1.34300
99.250 1.45320		05:50	1.300	0	1	9	-,01040	.03140	.08540	1.09570	.87150	1.25710
99.290 1.59320103300252000260002240035002240076109697063160 30.40. 90.900 1.136001035010270002640022400224002150272002240236002242022100224202222		37.230	D/ 600.1	06.60	0.00	06000	CONTRACT.	08720	06260.	1,11230	.94490	1.17720
### NO	ţ	39.80	1.45920	Deent.	07.30	Caccon	07000	05220	.09340	1,12370	1.01380	1.10640
#UN ND. ZI/ D RNL = 4.11 GRADIEAT INTERVAL = -2.00V 5.00 **********************************	ķ	41.20	1.51330	centr.	02601	- 00040	0.000	04240	07810	OZ 696°	.63180	1.53480
#M NO. 21/ 0 RN/L = 4.11 GRADIENT INTERVAL = -2.007 5.00 ALPHA ON CLM CTM CTM CTM CTM CTM CTM CTM CTM CTM CT	26.	30,960	1.15660	10030	UE/30		000001		64600	70600	72866	06503
#UN NO. E1/ 0 RAVL = 4,11 GRADIENT INTERVAL = -2,00/ 5,00 ALPHA ON		GRADIENT	.01795	.00496	.00064	00027	00024	.00015	3(2m).	***		
EC. 600 CA CA <t< th=""><th></th><th></th><th>RUN</th><th></th><th>88VL =</th><th></th><th>DIENT INTER</th><th>/AL = -5.00</th><th></th><th></th><th></th><th></th></t<>			RUN		88VL =		DIENT INTER	/AL = -5.00				
EC. 600	Š	45	5	X	ō	Š	형	ð	8	ರ	8	5
24.570	ş §	£ {		03480	00740	-,00040	01030	02180	207.10	.55440	.29530	1.67750
24.530 . 173500433000035000400 950 170063020240300 17500433000035000400 1.740 1750744800 1750943300112500002000020073700174406300 147406300 14700020001400 1470 14700 14				0.00	0.000	-,00040	0.010	06.40	.01710.	.61680	.34190	1.60390
26.770 .0725004730000350004001.7401747406300004001.74007300073700737001747406300173001747406300173001747406300173001740017474063001740017		25.270		0.00	יאפנאי	-,000000	-,90049	6.00	00710.	.63020	.3966	1.71490
28.440 .96170051500125000020 .07250		24.83	966	00000	0.000	.,000	-,00040	€ .G.	.01759	.74480	.43060	1.61660
30.940 1.022300571001470 .0002000030 .07460 .01600 .01640 .92350 .35.040 1.147000622001470 .0002000030 .06960 .01640 .92350 .35.040 1.1470006600 .001690 .001690 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01650 .01670 1.02690 .27.240 1.341640771001660 .0013000170 .06450 .01670 1.07290 .01670 1.07110 .01670 .01670 .01670 .01670 1.07110 .01670		5.61	06310.	9	02110	00000	00020	07570	.0174	.80630	. 52830	1.52590
33,140 1.147000622001470 .0002000140 .06730 .01850 .97880 .33,140 1.244500682001880 .0013000140 .06730 .01850 .97880 .35,140 1.244500682001880 .0013000170 .06450 .01870 1.02890 .35,240 1.3416001880 .0013000160 .06260 .01870 1.07110 .39,340 1.221400852001800 .0013000160 .06260 .01870 1.07110 .01850 1.0270 1.0270 .0013005010 .01850 1.0270 1.0270 1.0270 .001000 .001000 .			01100.	04740	01240	CECCO -	-,00050	.07160	CC9:C.	.86570	.60250	1.4367
\$5.140 1.244500168001300017006730 .01850 .97880		0.00	Contract	06690	. 0.477	02000	-,02050	09690	.01840	.92350	.66399	1.35930
\$7.240 1.3416407710018800017006450 .01870 1.02890 \$7.240 1.341640771001880 (0.13000160 0.0660 0.1870 1.07110 \$9.340 1.436400852001980 (0.13000160 0.06710 0.1850 1.10270 1.07120 0		33.040	1.1475	00000	100010 -	000	00140	.06730	.01850	.97880	. 77140	1.26480
\$9.340 1.436400652001940 .0016000160 .06260 .01870 1.107110 1.436400652001940 .0015000130 .01830 1.10270 1.10270 1.3240 1.32400918002300 .00130 .00130 .01800 .01800 .01800 .01800 .01800 .01800 .01800 .00100 .0		39.140	1.54430	0.220	0.880	06100	00175	.06450	.01870	1,0269	.86330	1.19170
39.345 1.52146091600713007130 .06010 .01850 1.10270 1. 41.330 1.52146091600713000130 .017120 .01860 .87100 30,935 1.057300564001300		37.240	1.34160	200000	Ceord -	G. I.C.	-,00169	.06260	01870	1.07110	.95910	1.1167
41.550 1.05140 .03140 .00000 .00000 .00000 .01800 .00000 .000000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .000000	0.66	040.040	1.43640	C30001	ORCHO -		95130	01090	.01850	1.1027	1,05000	1,05010
20.00 LINEAR LANGE AND A STATE OF THE PROPERTY		41.530	1.36140	00160	0000	CIRCLANO.		02170.	.01800	COURS.	.60490	1.47.830
	66	39,930	06760.1	0.0000	0000	14001	אראאים -	00100	01000	. 6920	69960*	04064

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TABULATED SOURCE
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(Rendon) (16 JUL 73)

PARAKETRIC DATA

PACE

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THE PROPERTY OF THE PROPERTY O

PARAKETRIC DATA	5CTA = .000 ELEVTR = ALEON = .000 BDFLAP = SFCOR = 999.990
REFERENCE DATA	SMEF = 2690.0000 50.FT. WARP = 638.7000 IN. LREF = 474.6000 IN. YMTP = .0000 IN. EXEF = 936.7000 IN. ZMTP = .0000 IN.

		S.	RUN NO. 22/ 3	D RWL =	5.04 GR	GRADIENT INTERN	INTERVAL = -5.00/	3.00			
į	:	ì	2		ž	Ø		88	ď	8	S
5	VI-LAN	5	5			09000		00380	. 15620	.24050	1.89650
4.935	20.270	13116.	05660		OKCUA -	05060		casco.	.51690	.26200	1.03290
4.959	G61.52	ores.	0.630		Caccon	-,00050		CTECO.	.57749	.33140	1.74230
4.939	0.22.22	0000	0.000		Cecuria	-,00040		00360	.64590	38970	3.65730
	26.20	Care.	100000 I		5000	-,00040		03800	.71440	.45890	1.55650
4.939	28.360	0.00	2100		(C)	-,00050		06500.	.77850	. 53150	1.46473
4.939	30.423	CEUPE.	07070		00000	07000		Cetch.	.84120	.61050	1.37780
4.93	32.483	Coren.	ביישני י	01260	COCCO	50110	06190	.00390	. e99CO	00669.	1.29445
£.438	26.36		C8790 -		CCCOC.	23123		R200 .	.95350	.78400	1.21490
4.953	30.00		00820		COCC-	0320		.00300	1,00150	07878.	1.13970
4.4.4	9.00	1.42330	00200-		0.00070	00120		.0333	1.04140	00226	1.07140
		J9270			0.6000	500063		07500.	.78050	.53230	1.46000
4.433	COACIENT.	.04531	C620G*-		10000	-, DOD234		00002	6£620*	.03623	04163

DATE 2º SEP 73	25 23	TABUL	TABULATED SOURCE CATA - MSFC TUT 574	E CATA - MS	FC THT 574					PAGE	e C
			78 FC	MSFC 574 (0A48) ORB 1396	ORB 1398				(887010)	0) (18 JUL	ر د
									PARAMETRIC DATA	DATA	
	REFERENCE DATA	CE DATA							6		٤
	98 00000	4800	14	838.7000 IN.				ALPHA "	900		3
		-	li	.NI 0000					300.	BCFLAP =	960
		.,	11	.NI 0000.				SPCBRK =	0.66° 666		
SCALE =	0706										
		RUN NO.	0. 73/ 0	# T/W	4.85 GRAD	GRADIENT INTERVAL =	VAL = -5.09/	66.5 /6			
		i	3	8	Ē	ŧ	5	CAB	ન	8	S
104	BETA	5	5	1,000	01850	.00420	.04890	.03270	06160	04970	-1.23910
	-10.450	- 196450	02250	14900	~.01510	00700	.05210	08060	-,06350	06250	-1.19890
966	9.4	2446		00001	06600	06200	.05360	.03040	07340	.05470	-1.34010
	9	0.5410	04040	0770	-,00560	07100.	.05510	069201	08180	.05610	-1.45660
Par.			2	03100	-,00230	06000	.05640	.02880	-,08610	.05760	-1.52900
			1957		.00149	.00010	.05640	.02010	09500	.05770	-1.6467
*		00000	2000	01830	00430	-,00020	.05490	.02850	09370	.05610	-1.67120
.596		Depon*-	26.40	- Dear	00000	-,00100	.05300	07620.	09520	.05510	-1.72630
. 198		0000			04.540	00200	.05260	03070	-,09350	.05380	-1.7363
. 596		C2760.	0880	- 15275	04.40	00230	.05160	033370	-,09280	.05290	-1.75460
8 .		-,0833G	0.450	2011			09050	.03760	08470	07120.	-1.6393(
. 596	9.730	06540	.03240	212	02020	0.000	04670	02830	-,09700	.05800	-1.67300
.396	330	09780	.04565	-,01000	.00140	orcor.	2000	90000	-,00159	00017	0333
	GRADIENT	05159	60000	01914	.00176	-,00032	-::	2			
		SUN NO.	NO. 74/ 0	RN1.	6.12 GRA	DIENT INTER	GRADIENT INTERVAL = -5.00/	00.8 /0			
						į	;	•	C	8	2
3	SETA.	ð	3	Շ	<u>ج</u>	탕	5	3	,	3	1000
•		10220	.04530	.21820	02630	.00230	.06740	.03670	-,10120	.06660	
	1	10640	00150	17900	02280	00400	.06490	03370	10550	naori.	
1		10000	.05660	.13610	01810	.00420	.06550	.03120	10760	00790	1.00.6
			08.690	.08510	01020	.00300	.06530	.03080	11690	.06700	-1.77
		02.2.	06680	.93760	-,00400	06100*	.06640	.02790	12630	02890*	-1.6506
			17697	C99CO -	.00150	06000	.06520	, 52600	13310	.06710	-1.9836
	3.	C	06830	05130	00000	02000	.06480	.02850.	13290	.:1667:	-1.9921
36.		100000	06260	-,19170	01390	00119	06290	.03020	13020	.5657	2096.1-
			14821	0.15300	.02190	00159	.06540	.03250	13070	.06730	-1.94:13
960		- 13100	04440	.19610	.02630	~.09070	00990	.03820	1292!)	. 06190	-1.9033
986	7.920	13060	00100	- 23480	02940	.0000	.06690	.04120	13019	.06880	-1.89,79
96	9.660	-,13110	0.000	01150	06100	.00110	.06850	.02750	13540	05070.	-1.9210
96 9 .		-13040	00000	02237	.00285	-, 00048	00021	00003	00141	02000-	-, 11266

-1.23910 -1.19890 -1.34010 -1.4580 -1.52900 -1.64670 -1.64670 -1.73480 -1.73480 -1.73480 -1.73480 -1.67300 -1.67300

PAGE 15

-1.41130 -1.56910 -1.77510 -1.99310 -1.99130 -1.99130 -1.99190

TABULATED SOURCE DATA - MSFC TUT 374

MSFC 574 (OA48) ORB 1398

(R87010) (18 JUL 73)

	86.
DATA	000 BCFLAP : 999.990
PARAMETRIC DATA	000.
ā	ALPHA = AILRON = SPEERK =
	YMRP = 636,7000 IN. YMRP = ,0000 IN. YMRP = ,0000 IN.
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REFERENCE DATA	00.0000 50.FT. 74.9000 IN.

-10.600 -6.640 -4.530 -2.360 320 1.730 5.920 7.970 7.970 7.970	CN05670058100620006200063200632007420073000037000370	00440 004400 004400 004400 004000 004000 004000 004000 004000 004000 004000 004000 004000	CY .20720 .16590 .12100 .03170 .03170 .03170 .01240 .10370	CYN0234001970014000062000230 .01480 .01480 .01480 .02840 .02840 .02880	CBL .01340 .01340 .01340 .00130 .00610 .00130001300073000730007300073000730007300073000726	CA .15600 .15760 .15760 .15790 .16200 .16290 .16290 .16290 .16290 .16290 .16290 .16290 .16290 .16290	CAB .03600 .03540 .03270 .03270 .05200 .05200 .05200 .05200 .05200 .05200 .05200	CL 05560 05560 05700 05120 05120 07700 06160 06160 06300	.15660 .15680 .15680 .15660 .16190 .16350 .17730 .17460 .16390 .16390	. 35250 . 35250 . 35260 . 37100 . 37100 . 37100 . 47360 . 47360 . 5540 . 5540 . 5560 . 18663

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-10.72	2.02.			Cotte	CORRO	13970	.03340	03600	.14030
-6.710	06750	00200	16091	nonto.					5
		Color	500	00719	555	.14545	3240	00000	
-6.390	CC0C0	rrorn.				(7027)	03170	03750	.14445
A20	C5050	02600	05770.	-,00440	30200	.1473.	2 177.		
7			03380	2000	C-0.	.14440	.03140	-,04000	.14500
-2.400	- 04200	erio.	occe.				04 1 20	D4240	C9771
	01770	01200	- 00630	52153		1441.	201000		
				00750	0110	14520	.03140	0.7470	.14580
1,760	0467	crito.					27.12	04440	14450
	D4967	01010	09040	06900	00245	.14360			
				ניייסניעיי	00300	1442	.03230	05030	.14495)
5.99	05230	02200	1.0001.	17.121.75					0077
	04840	00330	1827	.01330	03560	.14330	1.7251.	1370013	
0.00				(1)	- 00690	.14185	03300	05780	.14260
20.03	05960	00110	9 2 -	Caro fra			1		.4010
1820	04440	.01210	90800	01100	00030	.13950	€ 100.	114631	
			9000	2004	02000	.00003	-,00003	00120	50000
COANTENT	91139	50000	-,01990	007171					

TABULATED SOURCE DATA - MSFC TWT 574 DATE 28 SEP 73

(Re7510) (16 JUL 73)

PARAMETRIC DATA

PAGE 12

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ALPHA = AILRON = SPCERK =

MSFC 574 (OA46) ORB 1398		.NI 0000. .NI 0000. .NI 0000.
	REFERENCE DATA	B.FT. XORP :: N. YNRP :: N. ZNRP ::
DATE 28 SEP 73	RETORE	SAET = 2090,0000 50.FT. LREF = 474,0000 IN. BREF = 956,7000 IN. SCALE = .0040

	N W	NO. 45/ 0	RN/L =	4.05 GRAD	GRADIENT INTERVAL =	\mathcal{L} = -5,99/	3.90	a		
~ * * * * * * * * * * * * * * * * * * *	04 	CLM02230022300195001950013100136001360015000191001910	CY 19490 15620 15620 06590 064890 06890 06890 06890 06890 06890 06890 06890 06890 06890	CYN -, 20950 -, 20040 -, 20140 -, 20140 -, 20150 -, 20150 -, 20150 -, 20131	CBL .00470 .00480 .00380 .00320 .00220 .00080 00170 00310 00310 .00070	CA .10990 .10940 .10870 .10800 .10800 .10800 .10800 .10900 .10900 .10900	CAB .01710 .01670 .01650 .01650 .01650 .01650 .01660 .01660 .01660	CL 05220 05120 05000 05000 05380 05380 05500 05500 05500 05530 05530	11060 11080 11080 10870 11010 110870 10870 110870 110870 110870 110870 110870	4720 46430 46430 46360 46960 51690 51690 51750 51750 51750
	RUN NO.	o. 44/ 0	RAVL =	4.88 GRA	NEW INTERV	GRADIENT INTERVAL = -5.00/	5.00			

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6,000 6,
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	(Re7011)
TABULATED SOURCE DATA - MSFC TWT 574	MAPE 574 (OA48) CRB 1398
CATE 20 SEP 73	

CATE ZO SEP TS	EP 73	TABUL	TABULATED SOURCE DATA - MSFC TMF 574	DATA - MS	FC TMT 574					PAGE	2
			MSFC	MSFC 574 (OA48) ORB 139B	ORB 1398				(Re7011)	1) (16 JUL	ت د
		•							PARAMETRIC DATA	DATA	
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		RUN NO.	0. 78/ 0	BVL =	4.86 CRM	GRADIENT INTERVAL =	/AL = -5.00/	3.00			
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MOM	BETA	5	5	7	-,01560	02220	.01680	06250	47070	01660.	4.74920
	-10.425	2004	00000	14190	01330	02020	01670	.03139	.45921)	06960.	4.73560
566			5782	06101	00800	.51530	.01790	.02920	.44010	.09610	4.65930
č.		CK 457	02200	00296	00450	0010.	.01790	.02850	.44880	.09630	4.66080
ŝ.	-	2000	Cervin	05920	00150	.00550	.01860	.02740	.44505	08960.	4.61760
Š	•			06210	00160	.00160	.01890	.02749	.44250	02960*	4.59600
286.		C. 25.	040	04860	.00460	-,00219	.01920	.02789	.43680	08860*	4.57200
200			002.60	- DAB40	03900	00650	.01790	.02940	.43390	.09360	4.63450
ę.		44670	02.20	12019	01390	01120	.01820	01620*	.43700	.09450	4.62270
			O. L.	17010	.01820	01560	.01760	03200	.43830	.09410	4.65730
S. C.				.20180	07910.	01800	.01840	.03580	.43750	.09470	4.61830
				Carro		00140	07610.	.02730	43560	07560.	4.54900
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		RUN NO.	D. 77/ 0	# 7.7MB	6.25 GRA	GRADIENT INTERVAL =	VAL = -5.00/	3.00			
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ğ	META 10 000	5	5	ואצריק	01360	01390	06390	.03500	.48090		3.17330
769	-10,390	01006	G. 60.	16610	0.210	00510.	.06330	.03260	.47900	.15050	3.18120
		7000	07500	.12246	00910	01010.	.06340	.03010	.47220	.14940	3.15900
	26.4-	46240	06700	.07740	09500	.99749	.06610	.03000	.46310	.15040	3.07760
	445	47320	.01050	.03320	00100	.00350	.06480	.02930	.45430	.14740	3.08030
		47.60	01190	00900	00100	.00040	.06469	03050	.45270	14700	3.07910
		0227	.01200	-,05090	.00530	(1929)	00990.	.03010	.45300		3.05170
		65774	01600	00760	exere.	00750	.06590	03170	.45870		3,06940
		01827	02900	14380	.01545	01120	.06530	.03320	.45610		3,07340
		47.890	06100	-,18890	.01630	01319	.06590	069£0.	.45670		3.06460
	200		6000	22740	02610.	0:320	06990"	.03960	.45720		3.04400
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•	(R67511) (16 JUL 7:	DATA	ELEVTR = BEFLAP =
	(Re701	PARAMETRIC DATA	10,000 .000 999,999
			ALPHA = AILRON = SPCBRK =
. MSFC TMT 374	18) ORB 139B		
TABLEATED SOURCE DATA - MSFC TUT 374	MSFC 574 (OA48) ORB 1398		.NI GCCT. = 4M4Y .NI CCCC. = 4M4Y .NI CCCC. = 4M4S
ATEO			M 81 S1
TABLL		_	X 1. 25 GE 12.
		REFERENCE DATA	NEF = 2000,0000 50.FT. NEF = 474,0000 IN. NEF = 956,7000 IN.
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		RUN NO.	NO. 78/ 0	RNY.	6.93	GRADIENT INTERVAL = -5.00/	/AL = -5.00/	00°5			
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	WE.IA	5		* 7817		01910.	14960	06190	.56730	.25780	2.20070
1.195	010.01-		0000	1000	01130	01490	15220	01090	.56660	.26010	2.17640
1.195	0.00		03160:	8	06200	07.020	.15300	07720.	.56720	.26090	2.17360
1.195	9.00	2600	00160-	Care of	- 07430	09900	.15340	.05700	.56750	.26150	2.17040
1.193	4.490	0,000	CETCO.		02000	.00280	.15260	.03610	.56530	.26040	2.17030
1.195	017-2-	0.00	03760	11887	00300	09000	.15270	.05690	(16895.	.26115	2.17885
1.195		2000	08260 -	- 19640	.00740	00000-	.15330	07920	.56825	.26150	2.17290
1.195	1.130	George.	0.0300	10677	0.010	50580	.15445	.06030	.56200	.26140	2.14990
1.195	5.635	05000	01300	0.000	64.6	0100	15690	.06460	.55470	.26250	2,11250
1.195	5.930	06266	11111	01161	0.00	05510	14440	06560	. 55040	.26020	2.11460
1.195	7.960	.58860	04500	17680	nearc.	00010	3000			04690	19990
1.195	0.930	.58330	(14260	21360	cocco.	91730	.15240	2680	. 1640.	1000	
	2	6276	-,05360	01820	08300	09000	.14990	.05500	. 56670	.25780	2.19815
	CRADIES	76000	00010	01915	.00183	-,00147	.00012	.00049	00039	.00004	-,00186
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		RUN NO.	NO. 66/ D	RNY :	6.64 CR	CRADIENT INTERVAL = -5.50/	VAL = -5.90/	S. 130			
i	į	i	;	č	Ž	ē	5	3	д	8	2
	GE IA	5		COCE 3	0000	02210.	.12350	03130	.39280	.19660	1.99740
1.949	10.0	2077	00100	DOM: 1	05000	07600	.12470	03090	.38520	.19650	1.96030
1.969		20017	03950	06960	COCCE	00730	.12500	03050	.38140	.19600	1.94540
1.943	1	10040	00650	06110	05000	.00490	.12560	.03039	.37950	.19620	1.93360
1	036.4	0.004	00050	0.500	01.00	.00230	.12545	00620	.36020	.19630	1.93720

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	U. IA	5	£ 2	Ook: 3	0000	02210	.12359	03130	.39280	.19660	1.99740
1.943	-10.720	.42160	04400	COLU.	05000	CK OCC	.12470	03090	.38520	.19650	1.96030
. 949	-8.720	.41400	03080	00000	Calcul	00730	.12500	.03850	.38140	.19600	1.94540
1.949	9.9	40040	00000	06110	05000	00490	.12560	.03039	.37950	.19620	1.93360
	026.4	0.007	03800-	02830	Ctree.	.00230	.12545	00620.	.36020	.19630	1.93720
a de la	214.2-	00001	- 04070	CROPT -	CZ 100	-,00019	.12715	06620.	.37960	.1979	1.91790
1.969	0.00		01650	- 1446	OCEOG.	00239	.12930	.03150	.38085	.20039	1.90073
	8	04.034	03750 -	ה האחתי	01200	00470	.13040	.03260	.38090	.20150	1,89000
	9.00	0000	CONT.	1167	01200	(127(2), -	.12963	06880.	37990	.20060	1.89370
	26.6	2000	DPRET.	15380	06000	-,00939	.12930	.03540	.38090	.20045	1,90010
	90.0		- 04170	.19350	00130	-,01170	.12685	.03550	.38180	.1961.	1,92745
	20.02	0000	0.980	01080	.00110	00000	.12360	.03030	.36490	.19130	1,90660
	GRADIENT	62000	91000	01687	02000	99114	.00065	.00034	.00016	07000.	00591

REFERENCE DATA

(Re7011) (16 JUL 75)

PARAMETRIC DATA

2,990 -10,520 2,990 -10,520 2,990 -0,510 2,990 -4,470 2,990 -4,470 2,990 -2,410 2,990 -2,410 2,990 1,700 2,990 1,700 2,990 2,810 2,990 2,810	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0	CAN	CRADIENT INTERVAL = CA CA CBL CA	CA	~	25930 25930 25330 25350 25360 25960	.13610 .13510 .13510 .13510 .13500 .13320 .13340	1.75860 1.75110 1.75110 1.75120 1.72120 1.72650 1.72730 1.72730
	8 3 3 4 6 5 3 3 4 5 5 5	- 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0	2.4 2.4 2.00.	GBL 01190 02110 02000 02000 02000 02100 02100 02100 02100 02100 02100 02100		-	25930 25100 25100 25100 25100 25100 25100 25100 25100		1,73760 1,73760 1,73960 1,73960 1,72120 1,72530 1,72710 1,72710
				1111	GBL 01190 01030 00000 000430 -00120 -001	09390 09360 09360 09400 09280 09280 09280 09280	CA8 .01600 .01770 .01760 .01760 .01770 .01720	25950 2510 2510 2510 2510 2520 2590 2590 2590 2590 2590 2590 259		1,73760 1,73760 1,73960 1,72120 1,72120 1,72730 1,72770 1,72770
		, , , , , , , , , ,		1111	01190 01100 01000 00000 00000 00000 01200 01200 01200 01200 01200 01200 01200 01200 01200 01200	.09360 .09360 .09400 .09280 .09280 .09280 .09280	00610. 07710. 07710. 07710. 07710. 07710.	25950 05723 05723 05723 05723 05723 05723 05723 05723 05723		1.75760 1.75110 1.75960 1.72120 1.72530 1.72730 1.77770
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•					00000 00000 00000 00000 00000 00000 0000	.09360 .09400 .09280 .09280 .09280 .09270	09740 09740 09740 07740 04740	2350 23260 23360 22340 23060 23560 23560 23560		1.7260 1.7260 1.72630 1.72730 1.72730
· · ·				• •	0200. 0200. 0200. 0200. 0200. 0700. 07000.	. 99290 . 99230 . 99230 . 99260 . 99260	04710.	23260 23062. 23062. 23060 22360		1.72,50 1.72,50 1.72,70 1.72,10
				•	0.0000. 0.0000. 0.0000. 0.0000. 0.0000.	08280. 08280. 08280. 08280. 07280.	02710.	230.62		1,72650
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į		06920*-				00260	01710.	02622	.13240	1,73030
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		ı	50 13040	02000.	.01010	.07740	.00390	.15790	10501	1.50440
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		10000		01000	02700.	0.6570.	.00390	.15990	.10180	1.57020
		0.000		·	.00549	.07280	.00390	.15760	.10030	1.57150
	_				.00230	.07220	06500.	.15840	D666U*	1.58560
•	_	0.000			00:20	0.6170.	.00380	.15690	08660°	1.57950
	_	- 1			(19,700)	.07185	.00400	.15730	02660°	1.58530
		20110			00100	09170	06800.	.15740	09640	1.56350
		•	•		00500	03270	00400	15890	.10030	1.58410
4.959 5.730					04960	07740	02760	.14950	09660*	1 70130
4.959 7.730		•	•	danama, "	CONTRACT OF	17420	.00430	.15180	.10070	1,50739
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MSFC 574 (OA48) ORB 1398	

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									# 470 IF	000	ELEVTR =	000
#	2000.0000 98.F	÷	XARP	= 838.7	.NI GCOT.868					000	BOFLAP =	000.
00EF : SCALE ::	474.8050 IN. 936.7000 IN.				.0000 IN.				SPCBRK =	999.999		
		_	EK NO.	9 /68	S RN/L =	4.75 GRA	GRADIENT INTERVAL =	/VL = -5.00/	00'\$ /0			
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Ž	BETA	ð .	•	3 5	17660	07810	09220.	.01619	.04210	1.05110	.41740	2.51800
\$	-10.410	1.15000		06220	13700	01470	.01690	.01860	.04160	1.04960	41970	2 489AT
į.	007	0.000	3 8	91950	05960.	50849	.00940	02020	03810	1.03970	004.1	2.50560
į į	4.410	1.12500	8	01200	.05430	-,00290	.00160	07710.	CERCO.	1.04500	41160	2,51750
504	-k.370	1.11490	8	00490	.01060	01000.	05000.	01570	0.6360	1.03023	.41300	2,52110
*	320	1.12020	8	00060	-,04030	.0046	00000	03610.	04330	1,04360	.41300	2.52700
686	1.710	1.12230	8	-,01040	08825	07800	02630	200	04310	1,03160	40970	2.51780
8	3.770	1.10960	S.	-,00460	13090	.01380	00000	01010	02120	1,02490	41070	2.49560
. 599	3.800	1.10400	8	-,00630	16960	.01800	-,0116	200.0	0.250	1,02540	.41049	2.49860
599	7.830	1.10430	8	01630	20550	.02040	02510	0.44.00	04880	1.7.020	.40500	2,50990
665	9.750	1.09430	8	02520	23700	02120	-,01630	06910	DE 1970	1.04140	.41410	2.51450
664	320	1,12960	ě	99770	04270	.00510	occur.	2010.	95000	-,00095	-,00065	.00166
:	GRADIENT	00113	113	.00046	-,02295	.00210	00096	03000				
			RCN NO.	0 /61 .0	D RN/L =	6.05 GRA	GRADIENT INTERVAL = -5.00/	VAL = -5.0	00'5 /00			
							ŧ	đ	S S	ರ	е	S
Š	DET.	8		Ş	Շ	ב ט	4	Ceeso	U5640	07276.	.45460	2,13940
3	-10.1	1.07160	8	-,00390	.15250	02870	02520	. 06065	05550	07776.	.45820	2.13360
964	-6.740	1.07770	E	-,04050	.11855	01420	00.10	חהפיקה	.05530	.98089	.46130	2.12600
Š	-6.620	1.06170	R	01050	.06390	01740	COSTILL COST	05570	.05630	.98439	.46700	2,10760
Š	-4,530	1.08700	Ş	01060	.04830	CESTIC	04100	07570	09750.	.98210	.46640	2,10540
96.	-2.420	1.08470	Ę	00870	03000	araba.	00330	(37570)	05870	.98330	.46910	2.09610
960.	. 340	1.08660	<u> </u>	D.610	00000	90500	-,00619	00920	.05779	.98259		2.09460
į	1.750	1.06600	00	conto-	COMPON -	0(900) -	01320	.97250	.05670	.98330	.46561)	2.11190
969.	3.860	1.06560	8	DV800		- 01240	01830	00790.	.05490	.97280		2,13670
	5.96D	1.07200	8	Decrit:	0.000	28.6	02490	.06570	.05520	.96665		2.14260
8	060.0	1.06:70	ָ בְּי	CCCLT	- 2010	- 02270	02640	.06289	.05530	.9548!)		2,15390
986	10.030	1.05060	G	George C	00000	06100	-,00350	.07770	05750.	.96300		2.08570
		1.06730	2 8	2000	01745	-,00231	00234	.00003	40000	00000	-,00001	00910
	GRADIEM	- 1000	Š	4.0.7.7.4.	1							

(Re7512) (16 JUL 73)

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TABULATED SOURCE DATA - MSFC TWT 574

DATE 28 SEP 73 .

MSFC 574 (OA48) ORB 1398

c DATA	ELEVTR = BOFLAP =	
PARAMETRIC DATA	ALPHA = 20,000 E ATLRON = ,000 B SPCBRK = 999,990	
	ALPHA = AILRON = SPEBRK =	66.5 /60.5-
		RUN NO. 71/ D RN/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00
		6.39
	.NI GGG, = 9347 .NI GGG, = 9347 .NI GGG : = 9342	71/ 5 RWL =
≤	# 434.2 # 434.2	SCN NO.
SEPPRENCE DATA	SREF = 2690,0000 98.FT. UREF = 474,6000 IN. BREF = 936,7000 IN. SCALE = .0040	
	SALT :: UND :: SALT ::	

10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.770 -0.770 -0.770 -0.640 -1.540 -1.770 -1.770 -1.770 -1.000 -1.500	04 1.19570 1.20070 1.20860 1.2190 1.20770 1.2090 1.20720 1.17590 1.20720 1.20720	09630 09630 10310 10310 10310 10310 09320 10060 10060	CY .14040 .10260 .03480 .03480 .03480 .00300 .00300 .106300 .106300 .116330 .116860 .116860 .116860 .116860 .116860	CYN .02210 .02000 .01360 .01170 .00170 .00270 .00270 .01270 .01270 .01260 .01260	CBL1160	CA .13400 .13500 .13500 .13500 .14170 .13600 .13500 .13500 .13500 .13500	CAB .06690 .06590 .06700 .07020 .06960 .07030 .07030 .07030 .07030	C. 1.05840 1.06300 1.06300 1.06700 1.06650 1.07060 1.07060 1.05630 1.03630 1.03650	. 57210 . 57210 . 57200 . 56390 . 56390 . 56390 . 56310 . 56310 . 56310	1.65000 1.65175 1.65470 1.6540 1.6260 1.6260 1.6260 1.6260 1.6260 1.6420 1.62240
1.950 1.950 1.950 1.950 1.950 1.950 1.950 1.950 1.950 1.950 1.950	26.7A -10.790 -6.670 -4.590 -2.420 330 1.760 3.920 6.020 6.110 10.130 4.330	CN .e9110 .e9320 .e9320 .e9510 .e9510 .e7660 .e7660 .e7660 .e7660 .e7660 .e7660 .e7660	AD. 66/ 0 Q.M07090 05740 06740 06310 06410 06410 06690 06690 06690 06870 06370 06370	CY .14790 .10540 .06460 .03260 .03260 .00670 01540 05440 10100 14150 14150	CYN .01730 .01730 .01710 .01710 .01320 .01320 01260 01560 01660 01660	CRADIENT INTERVAL = CBL CA CBL CA 1010169010 10077010 10077010 200040010 200040010 200040010 200040010 200040010 200040010 200040010 200040010 200040010 200040010 200040010 200040010 200040010 200040010	CA .10300 .10300 .10300 .10300 .10300 .10300 .10300 .10300 .10450	CAB .0346D .03550 .03550 .03550 .03550 .03550 .03520 .03520 .03520		42440 42240 42900 42950 42950 42350 42350 41650 41670	1,66200 1,66230 1,64290 1,64290 1,63070 1,63040 1,64040 1,64120 1,64130 1,64130

であることは、一般の一般の一般の一般の一般を表現を表現を表現を表現しません。 これのことがある。 これのことは、これのことはい

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1		TABU	TABULATED SOURCE CATA - MSFC THE 574	: CATA - MSF	C TAS 574					PASE	B
20 87 31 W			788	MSFC 574 (OA48) ORB 1398	XB 1398				(R87012)	2) (18 JUL	č -
								_	PARAMETRIC	DATA	
	REFERENCE DATA	E DATA							500	E FVTR =	600.
	9 0000	er. year	ŅI	636,7000 IN.				ALPTA =	600		664.
и (434 ADD 98.		**	.NI 0000				AIDCO :	066.666		
	936. TOOO IN.	ZHRP	11	.NI 0000.							
SCALE =	0906										
		2	RUN NO. 46/ 0	MYL #	4.05 GRAD	GRADIENT INTERVAL =	AL = -5.00/	2°-20			
					;	ŧ	3	88	ಕ	8	\$
O#	BETA	5	ð	δ	N.	3	04270	.01859	.55945	02762.	1.06200
2.980	-10.440	.62810	04050	13290	nearn.	64.60	.06210	.01860	.56120	0576Z.	1,66755
2.990	-6.420	CT829.	03930	.10291	oesen.	06010	Cecea.	.01849	. 56050	.29560	1.69610
2.990	4.470	.62850	03670	20000	00000	01700	.08100	.01839	. 56070	.29590	1.89470
2.980	-4.410	00000	03290	oreno.	05500	00310	.06100	07710.	.55810		1,69220
E-960	-2,380	.62610	C6830	00100	65000	0,000	08670.	.01720	.55870		1.90100
2.990	-,390	.62620	- 03439	0.000	100340	00220	0.000	.01690	.55790		1.90050
2.990	1.690	.62540	03560	0.5.54.75	0.550	-,00639	01090.	.01730	C7822.	.29420	1.89890
2.990	3,750	02640	03610	01:00	(950)	06600*-	00080°	.01760	.55840		1.69950
2.990	5.790	00926	00860	01190-	- 10765	01370	06670.	.01810.	.55650		1.8968.1
2.990	7.620	.62360	-,03880	centr-	CKa00	01700	.08050	.01830	.55580		1.89340
2.990	9.760	.62330	0.880	-15970	Deboti	00030	.08020	01710.	.55860	.29440	1.99760
2.990	386 567646	00727	10001	01155	00147	50157	-,00015	90014	00021	- 500023	, thristor
							1	2			
		2	RUN ND. 47/ 0	D RN/L =	4.86 GRA	CRADIENT INTERVAL =	VAL = -5.00/				
				i	8	Ē	ð	93	4	е	S
MON	BETA	3	Š	ָל בּ	24040	03760	06170.	.00400	.45560	_	1.86910
4.959	-10.330	.51160		0.000	09200	01230	.07030	.00420	.45620		1.68330
4.959	-6.330	.51170	•	0000	0.000	06600	.06880	.00420	.45860		1,69690
4.959	-6.410	.51370	-, 02850	04.10	00,00	00700	.06760	.02420	.45530		1.904.00
4.999	-4.360	20606	•	06610	07200	.00360	.06990	.00420	.46070		06440
4.959	-2.360	06616.		02000	00030	08000	.00660	36200	.45870		03060
4.939	-,340	51500		03550	0.920%;-	-, 00290	. 116561)	£6500°	.46199		. 00000
4.959	1.670	. 51520		- 04060	-,02380	-,02629	.06610	.00400	.459tV		00126.1
4.959	3.710	Dieic.		06290 -	00570	-, 00880	.06670	06200.	.46120		190.0
4.959	5,710	Diete.		108520		02600"~	.06720	.00439	.45720		1.00046
4.959	7.739	. 51160	29020	(1501 -	01919	01359	.06820	.00420	•		1.69940
4.959	9.650	90906	•	02000	0.000	00000	.06640	.00410			1,92126.1
4.959	-, 340	.51460	•	72010 -	00105	00163	00021	-,00003	.00038	- 020008	0.3201.
	CRADIENT	261.13		9	ı						

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TABULATED SCURCE DATA - MSFC TUT 574

(Keruis) (to see 15)		000.
6	DATA	ELEVTR = BOFLAP =
ike ru	PARAMETRIC DATA	000.08 000.
		ALPHA = 30,000 ELEVTR AILRON = ,000 BOFLAP SPDERK = 999,990
6) CRB 1398		
MSFC 574 (OA48) ORB 1398		. мт сооб, то в в то
		61 89 85
	_	75 PE C
	REFERENCE DATA	PB. DOD SR.FT. 17.8000 IN. 18.7000 IN.

		RUN NO.	0 /24 .0	RBL/L =	4.80 CRAD	RADIENT INTERVAL =	AL = -5.00/	8.8			
	į		;	č	Š	ĕ		3	ಕ	8	S
Š	META A		5			1000		07470	.99790	.63430	1.57300
. 35	-10.460		00060	13710	00000	28.0		.07240	.98360	.62690	1.56890
35.	-6.520		.1020	02860	Oreno.	OCCIO.		07.570	97690	.62770	1,55620
ž.	4.470		20001	07420	00,00	00000		07690	96390	.62940	1.53450
.534	-4.450		10330	08580		90.00		01770	07536	.63110	1.52690
386.	-2.380		.10210	02700		00.00		09620	07096.	.62940	1.52620
. 594	330		10230	02600		20100		08670	.95640	.62650	1.52970
ž.	1.700		525	06270	occon.	CICOO I		02620	.97210	.62710	1.55020
160	3,790	1.15620	.10139	10140	0.000	00000	08180	02660	.97190	.62040	1.56630
ž	5.810		0680°					.07760	.97240	.61810	1.57330
5	7.840		0860		00000	09060		.07850	.98390	.62250	1.50060
3	£		01660	-1000	20.00	0000		07090	.96290	.63030	1.52760
.394	330		10410	05900	- mar	00164		.00037	.00035	00045	.00166
					4 :						

	RUN NO.	NO. 49, D	REAL =	4.10 GRA	DIENT INTERV	GRADIENT INTERVAL = -5.00/	8.00 00.8			
	i	2	č	Š	ĕ	ð	8	ರ	6	5
	5	}	,		Ceseu	D7767	02020	06299	.60840	1.42
٠	1.05340	06190	.19600	02010.	17550			00000	579.50	1.42
	Challe.	06200	06190	01570	.01750	.07600	יויכחכווי	00000		
			04440	04.5	04240	.07440	(7610.	.87120	02609*	1.4
	1.06030	COOK		01010	00440	07240	00660	.87240	09209	
	1.06070	06210	06620	30310	0.000			01840	60750	1. 1.
	1 06320	00290	06900	0.0670	.00320	£070.	CCRIO.	.67.340		
			0.000	COLUMN	0.0000	07190	.01820	.87615	.60940	
	1.06490	nacon.	1766		00000	03440	01830	87480	.60840	1.4
	1.06320	76120	02480	UV 6000*-		10116			Costa	7
	09090	06140	04720	91000	00750	.07167	.01880	-8/2/5		
		200	07170	01280	-,01260	.07260	.01930	.86940	.60600	
	Desen.					07830	01940	.86677	.60510	4.4
	1.05450	06290	- 1661°-	01473	- C1910			9000	COLUM	•
	0.04930	06090	12449	-,51700	02300	.07420	02610*	:0100.	136130	
2010		06.60	- C7670	(IPC)(V)	-,90020	.07220	.01820	.67590	. 6 0960	7.
	1.004/0	CC 10C.		01000	04.100	פועצאיו -	-, (2000)		00003	Ċ.
COANTENT	-,00001	11000	7000	50217	0.71.11.	7,-1-1-1-1				

RN/L = 4.10 GRADIENT INTERVAL = -5.03/ 5.00

DATE 26 SEP	27 93		TABUL	ATA.	SOURCE	TABULATED SOURCE DATA - MSFC TMF 574	SFC TMF S	174					PAG
					35	MSFC 574 (OA48) ORB 1398	ORB 1398	_				(R87013)	S) (19 JUL
	ROTOR	REFERENCE DATA	2									PARAMETRIC DATA	DATA
	2000,0000 84.FT. 474,8000 IN. 934,7000 IN.	\$ % % F	2148P	# # H	88. 89. 89.	.NI 0007.868 .NI 0000.					ALPHA = AILRON = SFDBRK =	000°05 000° 006°666	ELEVTR = BOFLAF =
SCALE I			REN NO.	ġ	0 /87	RECL	5.12	GRADIEN	T INTERW	GRADIENT INTERVAL = -5.00/ 5.00	3.00		
i		5	_	C	*	٥	Š	U	ಹ	5	8	ರ	8
	100			, ,	04660	.06460	01470		.01930	ororo.	.00430	.76770	.53270
	-10.539				07270	06490	.01150	_	01570	06990.	.00449	.77280	.53430
					04610	04600	02800		.01160	02290	.00440	.77530	.53320
		-			04730	02710	.00550		06700	.06610	.02420	.77360	.53450
			0.6340	1	06390	09600	00340		.00360	.06490	.00439	.78200	.53460
	96.		08176		04690	00650	-, 92070	_	-,00010	.06360	.00430	. 78000	. 53185
			28.60			-,02339	90430	·	0380	.06330	.00450	01777.	.52970
			04230	1	54515	04150	00680	•		.06449	.00430	.78019	.53289
	27.4		01010		04710	00000	-,00945	•	01230	.06510	.00440	. 17720	.53190
634			037760	-	01060.	56115	01250	•	01620	.06689	.00440	. 77470	.53230
			07650		09890	-,10060	01530	·		06730	. 20445	.76990	.53010
			00276	-	04530	-, 90580	-,00020		00000	.06419	. DOMAD	.78050	.53280
ECA	CRADIENT		75000		02000	00642	00160	,	00194	00025	50000	00019	00041

PAGE 29

1.44100 1.44410 1.44410 1.4560 1.4660 1.46400 1.46120 1.45120 1.45120 1.45120 1.45120 1.45120 1.45120

TABULATED SOURCE DATA - MSFC TAT 574

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MSFC 574 (0A48) ORB 1398

(R87514) (18 JUL 73)

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INTERVAL
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RGN NO.

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	1.39910	26250	.06730	01110	.02410	02990	.00340	1.01710	.96310	1.05610
	1.40970	26355	.05130	.01410	01020.	.06750	. 50355	1.02559	.96950	1.05770
	1.41760	06430	.03200	.01100	.01530	00990.	.00350	1.03260	.97380	1,06040
	1.42420	56540	.03440	06700.	.01020	.06419	.00359	1.03860	.97660	1.06350
	1.42530	064:0	.00030	.00430	06700	.06270	.00339	1.04030	.97630	1.06560
	1.42530	08570	C\$210	~, DOD40	GSDGO.	.06280	.00320	1.04030	.97530	1,06559
	1.42510	08290	02450	00470	00420	.06180	.05.340	1.04070	.97540	1,06690
	1.42180	08480	54190	00840	00930	.06180	.00350	1,03630	.97320	1.06680
	1.41700	-,08460	-,05990	31150	D146D	.06150	.03850	1.03490	.96990	1.06690
	1.40720	-, 58425	077720	01. 10	01890	.06290	.90350	1,02660	.96450	1.06440
	1.39510	08150	09330	91770	02320	.06400	.00350	1.01690	.95739	1.06225
	1.42240	~.D646D	91390	-,50060	01000*	.06200	.00330	1.03860	.97380	1.06650
•	00025	51000.	-,05680	70206	50238	00027	00000	00001	00039	65000

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(16 JUL 75 PARAMETRIC DATA (R&7215) MSFC 574 (OA48) ORB 1398

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PACE

13,750 .000 BEFLAP = 999,990 ATLRON :: SFOSRK :: 4.93 GRADIENT INTERVAL 3 .. 5.00/ 5.00 636,7500 IN. .0000 IN. H H H REPERENCE CATA 2000,0000 58.FT. 474,6000 1N. 936,7000 1N. LART : BACF : SCALE :

RN/L =

95/

ż

3.59830 2.77020 2.54060 2.33080 4.10140 1,7D 3,58900 4,05550 4,43980 4,43690 4,09300 4.5667 .49790 .58040 .20900 .00621 .09010 .10150 .11550 .16450 .20960 .26900 41970 CL. .32390 .41580 .51310 .51310 .51310 .51310 .51310 .51310 .51310 .51310 .513130 .513130 .51400 .51400 .51400 .51400 .51400 .514605 .03669 .03919 .04190 .04535 .05045 .05820 .03760 (2000) CAB .03820 .03850 .03740 .03520 CA .09190 .08930 .08140 .07170 .06150 .05830 .07030 .07230 .06949 .05540 -,543288 -, 00150 -, 00000 -, 00000 -, 00000 -, 00000 CYN DDA50 - 20470 - 20460 - 20480 - 20480 - 20480 - 20550 - 20550 .00660 .00660 .00450 0.900 50000 -,01700 -,51840 -,02140 -,02160 -,02620 -,53620 -.03140 -.03540 -.03480 -.03920 -.02570 -,18040 -,18720 -,17250 -,16330 -,16610 -,17000 -,15660 -.17970 -.18870 -,1999 -.19445 -.00115 .32500 .41860 .51960 .62310 .74590 1.00320 1.05749 1.20750 1.47060 .94837 10,090 12,200 14,280 16,400 10,310 20,310 10,100 1.670 3.762 5.880 7.980 486 486 486 .594

.50620 .50620 .74930 .84530 .96470 1.14370 1.19900 1.22170 .85580 գ. .30819 .04170 .04080 .04030 .04140 .04330 0.6360 0.6090 0.1100 0.04080 0.04430 OSSTO. 6.25 CRADIENT INTERVAL = -5.50/ 5.00 .12650 .13230 .13230 .13530 .13520 .13520 .11415 .11450 .11710 .11690 .1132:) CBC -.00150 -.00090 -.00010 -.00010 -,00220 -,00310 -,00300 -,00370 -.00350 -.00470 -.00250 .00031 .00240 .00460 .00012 .00480 00900 .00**69**0 .00**72**0 .00**55**0 02300 CYN ,00670 00000 -.02640 -,02865 -,02899 -,03589 -,04920 -,02870 റ -.ന258ന -.നമങ്ങ -, 02830 -, 03090 RNAL = -.927e9 -.03150 -,19140 -,23849 Q.H -.17450 -.22460 -.22510 -.22410 -.18449 -,21490 -.21670 -.25090 .17460 .84239 1.01749 1.14849 1.23699 1.31690 1.36470 .e9300 .30760 .43420 67339 .57540 E1.229 10.539 CRADIENT AL FHA -.215 1.845 4.555 6.180 6.360 10.520 12.700 14.920 17.070 19.210 699. 699. 669 .899 660.

3,362% 3,653% 5,47400 3,281% 2,77840 2,53850 2,53760 2,13650 1,95790 3,03170 L/0 2,75910 3.51330 .12800 .15500 .18900 .22830 .34720 .42370 .56120 .62400 28220 .01012 CO .11200

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DATE 28 SEP 75

TABULATED SOURCE DATA - MSFC TUT 574

HSFC 574 (0A48) ORB 1398

		****							PARAMETRIC DATA	DATA	
	REPERENCE SAIN	<u> </u>							1		
1		S C	= 636,7000 1N.	90 IN.					000	ELEVIR =	23.63
	.NI 0000-144		8	.NI 0000				ATURON "	000.	# LA1 =	
	956.7030 IN.	2342	SG.	.9990 IN.							
SCALE :		3	24	RW. 1	6.65 GRAD	GRADIENT INTERVAL =	AL = -5.00/	20.6			
		: <u>\$</u>				i	į	5	đ	8	5
2	AL PA	ð	Š	Շ	ž	Ę	5		0.010	01012	1.13980
		C7967	13490	01810	09700	00060	31152	00000	OCECS.	22510	1.63450
	098	37510	16660	01990	06900	00060	23300	0.000	49690	C9672	09566.3
	4.100	.51480	19710	02140	.00510	0,000	21330	01100	03064	28330	2.21290
3	6.330	.65440	22300	02373	.00500	- 00000	21230	2000	06032	32650	2.29940
1	6.570	. 79125	24039	02549	.00540	00010	2012		0022	36160	2.28460
	10.810	01926	25420	02770	07500.	00000	.21120	00000	27.00	44430	2.20220
		1.05360	26420	-,02620	.00520	00110	C0112.	20100		41.620	2.08230
1.190	100	17300	-,27130	05620	.00480	-, 50200	.21440	04040	20000	01004	01886.1
1.196	15.690		-27150	09620'-	02440	00250	.21620	.07410	1.15260		1.8285D
1.190	The water	20131	26610	08150	.00430	-,05200	.217.0	.0798 <u>:</u>	1.2157	1000	0000
1.196	19.67	Server.	26440	. 03180	.00360	-,00219	.21590	.06300	1.27570	.74150	1.16333
1.196	21.130	1.45973	26240	Correct -	.00540	02000	.21030	.96720	CC698.	CZDES.	7,565.2
1.196	10.810	06726	04262	- 00176	21000.	0000	.00050	-,0002	.05986	71600	19/61
	CRADIENT	.06369	01439								
		ON NA	0 /09 90/ 0	RN'L =	6.45 CRM	GRADIENT INTERVAL =		-5.00/ 5.00			
							į	į	C	e	2
	77	3	ğ	Շ	Š	턴	5	9	,	07671	39210
		06290	00690*-	01540	06200	-,00060	.16290	03250	O.F.	. 6.647	67420
		15180	06340	01630	00290	00070	.16410	03340	07/41.	18140	1.29720
		.24680	00660*-	-,91700	00230	<u>00000</u>	.16540	.03460	C.C.C.Z.	05961	1.57600
	3.340	32900	11020	01785	01500.	90100	16320	Caseo.	CYARE.	.21620	1.7769!)
	8.120	.41090	12020	-, 51850	. 90320	02120	0.661.	00000	46947	.24300	1.92720
	10,290	. 50430	-,13960	01690	.00280	00130	.1554	00000	1,500	.27260	1.96150
	12.445	.58620	1381.	01980	06200.	::::::::::::::::::::::::::::::::::::	1497.	00.600	44000	07.916	1,97310
	74.660	06130	1485	02000	.00249	00190	.14945	13.620	00016	37680	1,90790
	200	C4797.	16nsp	02019	00200	00195	.15185	12000		44030	1.62290
	19.000	.90250	17300	-,01980	.00159	00190	.15360	02550.	CY GAG		1.73080
196:	27.20	1.01420	18750	-,01950	.02100	05219	.15730	.03260	(1449)		1,94920
	26.00	05867	12835	00610	.09290	00149	.15120	01820		_	21326
108.1	CAADIEN	.04351	00708	-,00038	00014	00003	.00029	750005)

PACE 23

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PARAMETRIC DATA

(R67015) (18 JUL 73)

C

(R87515) (18 JUL 73 PARAMETRIC DATA 9. 9. 9. 066.666 AILRON = SPDBRK = CAB
.01710
.01720
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.01730
.01730
.01740
.01740
.01740
.01740
.01740 4.97 CRADIENT INTERVAL = -5.00/ 5.00 4.06 GRADIENT INTERVAL = -5.00/ 5.00 CA .11690 .11670 .11870 08000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 CCN . 00100 . 00100 . 00100 . 00100 . 000010 . 000010 . 00000 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00100 . 00000 TABULATED SOURCE DATA - MSFC TMT 574 HSFC 574 (OA48) ORB 1398 C7 .00000 -.00110 -.00110 -.00100 -.00200 -.00480 -.00480 -.00480 -.00480 -.00480 RUN NO. 22/ 0 RWL = 836.7000 1N. .0000 1N. QLM -.04490 -.04820 -.04940 -.05610 -,37470 -,06230 -,09040 -,09690 CLM -.04890 -.05720 -.08630 -.06030 -.07520 -.1117B REPERENCE DATA 2990,0000 90.FT. 474,9000 IN. 936,TDXD IN. 11.780 15.880 15.860 16.020 20.000 9.700 98ADIENT 3.470 5.960 7.630 9.700 DATE 28 SEP 73 BRC : SCALE ::

15.000

ELEVTR = BOFLAP =

.11790 .12900 .12900 .14260 .16036 .21940 .21940 .30370 .30370 ...01000 ...04370 ...04370 ...22630 ...22630 ...3540 ...42370 ...6320 ...56430 - .00000 - .00040 - .00040 - .00070 - .00070 - .00110 - .00130 - .00140 - .00140 .00110 .00110 .00110 .00110 .00120 .00120 .00120 .00120 .001120 .001120 .00090 CY
--,00250
--,00370
--,00370
--,00370
--,00380
--,00380
--,00380
--,00380
--,00380
--,00380 -.06110 -.05760 -.07540 -.08560 -.10550 -.05940 -.0350 .0500 .0500 .0500 .1664 .2170 .2170 .2500 .3557 .3557 .2500 .3557 .22150 7.900 1.400 1.400 3.430 5.460 7.900 9.530 11.570 15.660 17.710 19.630 9.540 \$4.840 4.959 4.979 4.979 4.979 4.979 4.979 4.979 4.979 4.979 4.979

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DATE 28 SEP 73

TABULATED SOURCE DATA - MSFC TMT 574

MSFC 574 (OA48) ORB 1398

(Re7016) (16 JUL 73)

PAGE 25

PARAMETRIC DATA

15,000 ELEVTR = BUFLAP = 000°. BETA = AILRON = SPEBRK =

23/ 0 RN/L = 4.12 GRADIENT INTERVAL = -5.00/ 5.00 RUN NO.

.N1 0000. .N1 0000.

YHRP ZHRP

2000,0000 S4.FT. 474,8000 IN. 936,7000 IN.

SACC :: SACC ::

REFERENCE DATA

1,74510 1,67200 1,56620 1,49720 1,41260 1,24540 1,10270 1,03420 1,33110
.36340 .41600 .41600 .55640 .35640 .3540 .95950 1.01360 1.2160 1.2240
.63420 .69900 .7660 .83300 .95760 1.00620 1.11380 1.119900 1.15900 1.19900 1.19900
CAB .01730 .01730 .01730 .01730 .01770 .01910 .01910 .01920 .01920
CA .11660 .11730 .12890 .12890 .12890 .12890 .12820 .12820 .18820 .18820 .18820 .18820 .00000
CBL00130001200012000140001400017000170003800038000380
CYN .00060 .00090 .00090 .00090 .00110 .00120 .00120 .00280 .00320 .00320 .00320
-, 20330 -, 20370 -, 20130 -, 20130 -, 20130 -, 20130 -, 20130 -, 20130 -, 20130 -, 20130 -, 20130 -, 20130
12300 13470 14370 16930 16930 19310 20630 23690 23690 25640
27160 .e0600 .e9660 .99440 1.09690 1.29380 1.39710 1.90690 1.71600 1.19600 1.19600
ALPHA 20.630 22.990 24.690 26.600 26.600 35.990 35.180 37.290 37.390 41.390 30.960
2, 990 2, 990

	CL CD L/D .53700 .29960 1.79140 .60670 .35400 1.71370 .67530 .41567 1.62490 .74430 .46620 1.35070 .91570 .56400 1.44260 .94090 .73710 1.2560 1.04720 .83190 1.12590 1.10420 1.13960 1.139810 1.12930 1.13960 1.359910
5.00	CAB .00370 .00370 .00370 .00380 .00380 .00410 .00410 .00410 .00410 .00410 .00410
AL = -5.00/	CA .09520 .09630 .10120 .10530 .11590 .11590 .12590 .12590 .12590
CRADIENT INTERVAL =	CBL -, rolled
5.50 GRAD	CYN , 500060 , 500060 , 500060 , 500060 , 500160 , 500160 , 500150 , 500150
RN/L =	00720 00720 00730 01020 01400 01450 01520 01520 01520
0. 24/ 9	11060 12020 13350 14780 17240 18570 19950 24770 17390
RUN NO.	.00760 .00560 .00560 .00620 .00620 1.100570 1.29293 1.593930 1.006203
	20.260 22.210 22.210 24.270 26.340 30.440 32.370 34.360 34.360 36.620 36.620 36.620
	4.939 4.939 4.939 4.939 4.939 4.939 4.939 4.939 4.939

ب د	L 73 3			13,750	. 99120 . 98120 . 97250 . 61720 . 7680 . 7680 . 62090 . 57530 . 57530 . 71650
PAGE) (16 JUL 73	į	CATA	ELEVTR = BOPLAP =	1.12110 1.2240 1.33630 1.44670 1.73710 1.62510 1.99510 1.96460 2.01970 2.01970 1.73920
	(R87017)		PARAMETRIC CATA	066.668	0. 1.1120 1.14200 1.10200 1.21170 1.22030 1.17930 1.17930 1.07430 1.07430
				BETA = AILRON = SPORKK =	CAB . 003 10
				·	COL CA COL CA COL CA COL CA COL CA COL CA COLORDO .13360 COLORDO .14260 COLORDO .14270 COLORDO .14270 COLORDO .14270 COLORDO .14270 COLORDO .14270 COLORDO .13570 COLORDO .13570
					CBL0109001090010900100001000004200043000480004800048000700007030007030007030
FC TAT 574	-1	ORB 1396			CYN - 00420 - 00420 - 00420 - 00400 - 00400 - 00400 - 00390 - 004300 - 00390 - 004300 - 004300 - 004300 - 004300 - 004300 - 004300 - 004300 - 004300
204 - 4740		HSFC 574 (OA48) ORB 1395		636.7000 IN. .0000 IN. .0000 IN.	CY04120
STATE OF THE STATE	LATED SOUNCE	MSFC		9 H H H	0 78 00 00 00 00 00 00 00 00 00 00 00 00 00
	TABU			CE DATA	CH 1.57280 1.78400 1.78400 1.78400 2.18220 2.18220 2.28100 2.28100 2.28100 2.28100 2.38000 2.38000 2.38000
	r			2000 000 00.7 474,0000 1N. 996,7000 1N.	46.340 46.340 46.340 46.340 90.440 90.4510 90.950 90.950 90.950
	DATE 20 SEP			, , , , , , , , , , , , , , , , , , ,	**************************************

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(R87518) (17 SEP 75)

PAGE 27

PARAMETRIC DATA

000.03	
ELEVTR = -20.000 BGFLAP = .000	
.000 ELEV .000 BOFL/	
BETA = AILRON = SPDBMK =	-3.00/ 5.00
	RUN NO. 1770/ G RW/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00
	4.93
# 636,7000 IN. # 0000 IN. # 0000 IN.	1770/ 0 RWL =
	RUN NO.
#EFERENCE DATA BAREF = 2890.0000 94.FT. 3 LMEF = 474.8000 IN. 3 BAREF = 936.7000 IN. 3	6800
	SCALE =

2,03609 -2,03609 -2,24510 -1,02560 -1,11030 2,64390 2,64390 2,64390 2,64390 2,64390 2,64390 2,64390 2,64390 2,64390
.00590 .07660 .07660 .07240 .07330 .09080 .11900 .16171 .260703 .35090 .09070
26060 17430 07430 .02460 .12860 .24020 .45370 .54200 .65250 .78660
CAB .02730 .02660 .02710 .02730 .02800 .03120 .03120 .03450 .03600 .02600
0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
CYN .00150 .00150 .00150 .00170 .00220 .00110 .00110 .00110 .00110 .00110 .00110 .00110
C4 00770 010940 01400 01420 01420 01420 01420 01420 03030
Q.H .13920 .13960 .13960 .13770 .13850 .13200 .13200 .12500 .13550
ALPhA e20 1.560 5.470 5.560 7.660 11.960 14.570 16.170 20.270 9.770 9.770

2.46690 -1.49210 .02430 1.34150 2.13010 2.42600 2.11710 2.29360 2.11710 1.96960 2.44700
.10670 .09790 .09500 .10810 .16420 .20180 .23150 .358150 .37710 .42070
CL - 26830 - 14610
CAB .03210 .03260 .03130 .03160 .03330 .03460 .03780 .04670 .04670
CA .10590 .10140 .09860 .09860 .09820 .09110 .09110 .09160 .09160 .09160 .09160 .09160 .09160 .09160 .09160 .09160
.00170 .00160 .00160 .00070 .00070 .00080 .00080000800080
CYN .00370 .00340 .00340 .00360 .00360 .00400 .00400 .00490 .00360 .00200 .00150 .00360
01560 01670 01660 02350 025350 02630 02960 02960 02950 03140 02850 030970
.16310 .15320 .15080 .10340 .00340 .06750 .06750 .06760 .06760 .0670
-26930 -14370 .00600 .13530 .22600 .42120 .53900 .65130 .76560 .87760 .94190
ALPHA000 1.300 3.000 5.000 10.130 14.500 16.720 16.720 16.390 10.190 cr.920
26. 26. 26. 26. 26. 26. 26. 26. 26. 26.

GRADIENT INTERVAL = -5.00/ 5.00

99/ 0 RN/L = 6.23

RUN NO.

THE REPORT OF THE PROPERTY OF

CATE 28 8CP 73	8 7	146	ULATED SOL	TABULATED BOURCE DATA - NSFC TAT 574	SFC TAT 574					Ž	PAGE 20
	٠		¥	HSFC 374 (0448) ORB 1398	ORB 1398				(887018)	8) (17 SEP 73	. t
	HETEREK	CE BATA							PARAMETRIC BATA	CATA	
	TO SE COMP. See. PT.	N. T.	*	838.7000 IN.				BETA =	000	C.EVTR :	-20,000
	424 6000 18			WI OCOC				AILRON =	000	BOTLAP =	000.
	936.7000 1N.		, H	.0000 IN.				SPORK =	939,990		
SCALE =	OPCD.										
		M	RUM NO. 94.	94/ 0 RVL =	4.65 GRA	CRADIENT INTERVAL =	/AL = -5.00/	8.00			
1	3	3	2	ŏ	Ē	É	ฮ	3	4	8	Š
			1.400	. •	00470	.00000	07503.	.06190	16D4D	.20530	78130
1.18		0000	.11610	•	01600	0000	06802	.06410	02640	. EDEB O	14020
1.195		.12300	ossao.	_	01600.	-,00090	.20030	.06310	.10940	.2000	. 52620
1.193		.25840	.06030	•	00500	00100	02/61.	.06730	.25630	.22330	1.05800
1.305		.38330	04140	•	.00590	-,0003	.19160	.06830	36190	.24620	1.47010
1.195	16,500	00646	cceco.	002670	00800	00070	.18630	.0696D	.46520	27940	1.75635
1.195		09699	.01100	0.00870	00000	02000*	.18060	.07030	.60910	.32300	1.68600
1.195	15.000	. 10000	00640	09920'- 0	.00460	.00030	.17410	.07350	. 73020	.37590	1.94250
1.195		.92530	01760	00120 0	00370	00040	.16990	.07620	. 63350	.43630	1.91030
1.195		1.02280	01080	002750	.20180	00000	.16530	00920	09606.	.49570	1.63530
1.195		1.tmedo	00900	0992,1"- 0	.00220	00010	.16060	.00040	.97760	.55530	1.75140
1.195		CARE.	07920	0 -,02560	01900*	00070	.18590	.06910	.4884D	. 2799Ü	1.74840
	£	.06673	01495	84000 6	.0000	00025	00079	.00073	.06215	.00064	.30120
		3	RLN ND. 65/ 0	O RWL =	6.32 GRA	DIENT INTERN	GRADIENT INTERVAL = -5.00/	00.8			
				į	į		i	•	•	8	ę -
Ž	\$	5	5			3	5	3		44640	71900
20.		TI ST		-,03420	Death.	OCCUPATION OF THE PROPERTY OF	02051	0880	02020	.14950	19060
			03050	-	00000	00000	.14630	.02710	.06230	.15060	.41540
	5.840	46040	027.10	Ī	.00240	01000	.14200	.02870	.14620	.15760	.93670
	7.880	00052	00700	·	00100	00010	.13760	.02860	.23210	.17160	1.55260
	10.140	34340	cecco.		onzao.	00040	.13230	.03050	.31460	.19090	1.64740
1.956	12,370	.42950	DO170	02210 0	00200	00070	.12370	00060	39310	.21280	1.04670
1.956		. 53010	00610	09/10/-	.00150	00070	.11860	.02960	.48300	.24870	1.94210
1.956		.61720	01020	00e10"- 0	06000	00100	.11310	05050	.55630	.28630	1.95000
1.956		.71660	01520	07170	.00040	06000"-	.10950	.03170	.64220	.33660	1.90750
1.956	21.040	. 80000	01950	•	cccc.	-,00080	.15470	.03300	. 70900	.38500	1.84170
1.956	10.160	.33660	09100		.00220	-,00050	.12020	.03040	.31060	.18600	1.66970
	GRASIENT	.04360	-,02669	GC0000*- (00017	00007	00183	.00021	.04099	00108	20492.

DATE 20 SEP 73	8. E	TABU	LATED SOURCE	E DATA - K	TABULATED SOURCE DATA - MSFC TUT 574	•				PAGE	£
			MSFC	MSFC 574 (OA48) ORB 1398	ORB 1396				(R67016)	(17 SEP	٠ د ع
	RODROK	CE DATA							PARAMETRIC DATA	: DATA	
									8		-20,000
*	2880,000 98.	.T. X887	m	636.7000 IN.					3 5		000
5	474.8000 IN.			.000 IN.				A LONG I	066.666		
BCALC :	934. 7000 IN.		И	.0000 in.							
		RUN ND.	NO. 41/ 0		4.05 CRA	CRADIENT INTERVAL = -5.00/	VAL = -5.0	00.8 /0			
	i	i	;	č	ξ	ŧ	ð	3	4	8	\$
	•	3	1	00140	00100	09000	.11320	.01560	06350	.11410	73200
066.3				01400	09000	07000	.11020	01510.	03500	.10940	-,32040
			8	-,00210	06000	07000.	.10710	.01640	06220.	.10860	.21080
		000	06300	09300	09000	05000.	.10200	.01710	.00000	.11030	73140
		15610	00000	00230	00000	.99920	.09619	.01720	14170	.11790	1.20220
		22.180	01000-	-,00320	09000	0000	.09490	.01730	.2027D	.13090	1.54890
	•	04604	00400	00290	06000	02000	.09280	.01750	.26470	.14990	1.76510
		DOMES.	00140	-,00430	00000	.0002	00000	.01780	.32690	17340	1,86530
		09287	00230	00500	00000	00000	06990*	01770	39190	528.70	1.93300
		90790	0000	00430	00000	02000	.06450	orric.	.45660	.23790	1.91890
		R	00510	02500	06000	.00020	.06219	.01770	.51830	.27640	1.67500
		0524	09000	0.0240	07000.	.00010	02560*	.01730	.20630	.13180	1.56470
	Š	95830	00043	00017	-,00002	00002	00153	.00020	.02668	00136	.23659
		GE WAS		BACL	4.06 GRA	CRADIENT INTERVAL = -5.00/	VAL = -5.0	9.30			
									i	1	•
Š	AFA	5	ā	Շ	ટ્ટ	현	5	3	4	8	
4.93		-,07840	01790	00400	.00020	07000	0000.	.00350	07740	penen.	2000
4.93		05740	OLT 10	00420	-,00030	00000	00420	09600	03940	nessu.	00000
4.959		01100	01330	00310	00000	07000.	04340	00360	01200	01100	44780
4.93	5.430	.04490	01160	00360	-,00050	00000	.07920	00200	osuso.	oreau.	20000
4.959		.10160	-,00esp	00160	01000	.00060	.07820	.00360	00160	06880	1.02410
4.939		.15510	06400"-	07000	00010	09000*	07470.	.00390	.14060	.09940	1.41460
4.956	•	.21130	00560	orcco.	00000	07000.	.07290	.00390	.19230	.11390	1.68880
4.938		.27450	00440	-,00030	00000	02000	.07130	.00400	.24990	13420	1.66210
4.059		.33610	00470	00100	-,00000	01000	.07030	.00410	.30450	.15870	1.91660
4.450		40600	00430	00160	-,00059	00000	.06880	.00410	.36560		1.92990
		07575	00400	00300	G9GGG"-	CACCO.	.06710	.00410	.42510		1.90030
		15630	00710	09000	00000	0,0000	.07439	.00410	.14190		1.43110
<u>;</u>	ş	.02165	.00107	.00023	00005	00000	-,00151	.0000	.02013	00163	. 22325

の一般のできます。「「本語の歌歌」の音楽を見ることが、「は、「これのは、「は、「は、「は、「は、「ないないないないないない」というない。「は、「いんだいない。」の音楽を表現されています。「は、「いんだいない

	£	TABLE	TABULATED SOURCE DATA - MSFC TMT 574	DATA - MSF	C TMT 574					PACE	g W
DAIL SO	2		3	wer 474 (O448) ORB 1398	RB 1396				(R67019)	9) (16 JUL 73	ر د د
			<u> </u>						PARAMETRIC DATA	DATA	
	REPERENCE DATA	E DATA									
ļ	48 0000		H	836.7000 IN.				BETA =	000	ELEVTR =	000.35
9	474.0000 1K.	:	#	.NI 6000.			•	AICRON =	G66.666		
	.0040	23862		.0000 IN.							
		RCH NO.	NO. 36/ 0	RIVL =	4.D6 GRAD	IENT INTERV	CRADIENT INTERVAL = -5.00/	2.00			
					•	į	t	88	ರ	е	S
YOM	ALTHA	5	ē	Շ	NAC CAR		00300	.01780	.51660	.26200	1.63250
2.960		. 500.0	0500	00780		00000	0.00070	.01760	.57913	32720	1.76970
2.990		9	00770	00790	06000-	01000	06770.	.01750	.64380	.39030	1.69270
2.990		.74360	00000 ·	0040	04000	00040	.07590	.01740	. 70630	44050	1.60320
2:390			- 01430	09600'-	-,00020	05000	.07290	.01730	.76910	0.000.	CIGIC:
2.990		02900	-,01760	-,01110	0003	00070	02040*	.01760	. 82620	57690	1.34600
2.990			06040	01370	00000	20100	.06790	00010	066539	100.00	1.26560
2.990		2000	02420	01590	06100.	00150	.06900	.01830	08388	20167	1.19020
2.80			05850	-,01660	.00130	00160	.06160	.01840	05696	09000	052.
2.980		DECESS:	08280	01820	.00160	00180	.05810	.01620	1.02870	00000	05:50
0		1.50	00000	0183D	00100	00160	.05510	.01600	1.06210	Coolor.	43.60
2.80			06910-	-,01070	00010	09000*-	05040	.01760	01628.	DIEVE.	- 13632
2.990	30.93	0.0243	-,00146	00061	60000	-,0000	00132	.00003	.02647	encen.	
					465	מופאנו ואנופגיי	COADIENT INTERVAL = -5.00/	5.00			
		SUN NO.	. 38/ U	5						1	
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Ž		5		-,00440	-,00050	01000.	.07010	.00360	42420	09063	2.63940
4.93			00130	-,00450	-,0000	.00010	.06890	.00360	48550		OSBUZ .
4.938		0000	00420	-,00600	-,00120	00040	.06750	.00360	. 54590	•	1.62540
		77.430	00000	-,00640	-, 0000	00010	.06650	.00340	2110.	•	1.53780
4.000		Calledia	-,00420	-,00810	50130	-,00010	.06560	07500.	.0475.		
4.93		05100	00290	09600	00110	09000*-	.06439	.00360	73610		
4.95		0.00	02600"-	01239	00060	-,00100	.06310	.00360	. 19630	-	1.28819
		07870	-,01020	01150	00000	-,00060	06090*	09800	. 63460		1.21120
		1.17420	01640	01330	0.0000-	-,00060	.05920	oecoo.	Design.		1.13680
4		1.27260	02119	01390	06000*-	-,00049	.05780	.00349	. 936ru		1,06750
4.050		0.36170	02440	01495	00050	-,000060	.05790	.00340	19466.		1.45160
4.93		00000	00650	06600*-	00110	00080	06750	.00360			1787.
4.959	GRADIENT	04340	-,00105	00056	20000	* 0000 -	-,00063	-,90001	,02651		

TABLEATED SOURCE DATA - MSFC TLAT STA

HSFC 574 (OA48) ORB 1398

(Ref020) (16 JUL 73)

PAGE 31

PARAMETRIC DATA

000.03-ELEVTR = 000. BETA = ATLRON = SPCBAK = 636, 7000 IN. .0000 IN. 2000,0000 84.F.: 474,0000 IN. 936,7000 IN. LART :

1.07320 1.01130 94890 .88890 .88890 .77890 .77840 .58290 .77840 .90830 .99630 1.09470 1.19660 1.30190 1.50190 1.58709 1.58709 1.72760 1.72760 1.72760 04.
97290
11.09760
11.09870
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11.09230
11.09360 CAB .00220 .00140 .00140 .00010 .00010 .00020 .00040 .00040 .00020 .00020 4.90 GRADIENT INTERVAL = -5.00/ 5.00 CA .05930 .05930 .05930 .05930 .05930 .05930 .05930 .05930 .04930 .04530 .04530 .04530 .059300 .00109 .00109 CBL
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DATE 28 SEP 73

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PAGE

DATE 28 8EF 73	2 5	TABUL	TABULATED SOURCE DATA - MSPC TMT 574	DATA - MSP	rc TMT 574				į		
			MSFC	HSFC 574 (OA48) ORB 1398	X8 1396				(R87021)	1) (18 300.13	2
								-	PARAMETRIC DATA	DATA	
	REVERBICE	CATA							Ę	EVIR =	-40.000
	2000.0000 54.6	÷	936	636.7000 IN.					000	BOFLAP =	-14.250
 5	474.8000 IN.			.0000 IN.				SPCBRK :	999,990		
SCALE :	0,00	j									
		G	D. 94/ 0	RWL =	4.94 GRAD	GRADIENT INTERVAL =	/VL = -5.00/	00'5 /			
					į	į	t	3	ರ	8	Ŝ
10	AFA	5	ē	Շ	2 G	3	14830	.03470	50010	.15510	-3,22300
386.	6F	90220	.22540	00000	- 00140	00100	.14720	.03540	40410	13670	-2.91260
26 .	_	40110	06022	-,00000	10000	02100	.14310	.03720	30670	12550	00000
,		06062	0.00	00000	-,00110	09000	.13520	.04060	21660	05611.	94810
3 6.		00002	00000	0.700	-,00070	00000	.12340	.04040	-10490		03850
96 .		06660		01010	06000	00010	.10660	.03420	01510.		08760
986		Carsen.	Orecte Charles	00600	-,00150	.00390	.10210	.03680	.15740		1.61520
966.		26191		01280	0.0000	-,00200	.09650	.03560	.26745		1.87540
96 6.		06642	2000	- 01460	06000	07000.	.08710	.03400	.36720		98670
. 586		4000		00610	01100	-, 20150	.08120	.03230	.48320		1.99750
Š.		23400	00103	02730	.00240	-,00200	06270.	.03710	. 59940		0875
96.		0000	2000	0	Oxcoo.	00000	311040	.04010	.01750		Anter
26.	039.6	06960	-,00202	-,00062	02000	-,00002	00128	.00061	.04727	-,0072	
	Section 1					ANGELIA MANGEMENT TO COMMENT	0.5. n	5,90			
		RUN NO.	ND. 93/ 0	RENT =	6.23 GRA	DIENI INIEK	יאשר -				ļ
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28.		47460	06522	00300	00000	05000	.19100	.04480	36200	.18390	-1.5005.0
į	••	-,53630	27000	00550	-,00060	09000	.18350	.04630	-,25470		
¥.		24430	W66.	01040	-, 500040	.00100	.17660	.05140	13210		
36.			3962	-,61340	02000	.00000	.16719	.05020			
		02964	06091	01320	00139	-,00010	.15320	104821	000011		1,43060
26.			07671	51845	60000	.00040	.14380	94719	00.84		•
286		1200V	13440	02039	00000	.00030	.12920	.04530			
286		06579	12390	00220*-	GUCCO.	00000	12090	.04450	CR708.		•
Ė (.77525	.11690	02320	-,00020	02000	.11270	26050			-
		87960	.12150	-,01540	00450	00280	.11040	06260			
		20940	.15695	01349	99139	00000	01051.	- 00001		•	19340
į	.	.05441	-,00403	-, 00049	00003	-, 50002	707111.		ı		

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TABLEATED SOURCE DATA - MSFC TMT 574 CATE 20 SEP 13

HSFC 574 (OA48) ORB 1398

(Re7021) (16 JUL 75

PARAMETRIC DATA

-40,000 ELEVTR = BOFLAP = 000. 000. 099.990 BETA = AILRON = SPEBRK = 636,7000 IN. .0000 IN. REFERENCE DATA 2000,0000 00.FT. 474.6000 1N. 936.7000 .X. LIEG :

1,36970
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-,56130 27360 .27360 .26730 .26730 .27330 .36700 .37360 .37360 .37360 .37360 .37360 .37360 .37360 .37360 -41040 --26890 --13470 -115800 -29460 -28460 -59690 -76340 -65160 6.66 CRADIENT INTERVAL = -5.00/ 5.00 CA .29350 .27957 .27560 .27560 .27560 .27560 .27560 .27560 .27560 .27560 .19630 .196000 .19600 .19600 .19600 .19600 .19600 .19600 .19600 .19600 .1960 -.00000 -.00100 -.00100 -.00100 -.00100 -.00100 -.00100 -.00100 -.00100 -.00100 -.00210
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-.00000 24620 21620 21630 21630 21630 21630 20630 20630 21730 21730 21730 ğ RUN NO. 12.560 14.630 17.100 19.280 21.370 10.310 68ADIDH ALPMA -.873 1.250 3.510 5.780 6.040 10.300 761.1 761.1 761.1 761.1 761.1 761.1 761.1 761.1 761.1 761.1 761.1

-1,04960 --64820 --15690 -15690 1,17630 1,61460 1,77910 1,77910 1,20340 .19570 .19570 .17430 .17430 .18150 .21960 .23669 .33270 .33270 .19630 CL.
--.20090
--.11620
--.02760
.06216
.14650
-31360
-48770
-56860
-53870 CAB .03120 .03120 .03120 .03120 .03120 .03120 .03130 .03240 .0326 6.44 GRADIENT INTERVAL = -5.00/ .19630 .19630 .17770 .15770 .15970 .15970 .14670 .13620 .13620 .15340 .15340 CCN (100200 (100200 (100200 (100200 (100200 (100200 (100200 (100200 (100200 (100200 (10020) (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020) (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020) (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020) (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020) (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020) (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020) (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020) (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020) (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020 (10020) - 01290 - 01390 - 01390 - 01300 - 01300 - 0150 RR/L " 14.510 16.700 16.910 21.020 10.100 2.340 3.520 5.700 7.690 10.090

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DATA
SOURCE
TABULATED

DATE 28 SEP 73

SACY :

-40.000 (R87021) (18 JUL 73) ELEVTR = BOFLAP = PARAMETRIC DATA 000. 000. BETA = Allron = SPDBRK = MSFC 574 (OA48) ORB 1398 .HI GOOT.868 .NI GOOG. PROX PRYS NEFERENCE DATA 2090,0000 30.FT. 474,6000 IN. 936,7000 IN.

1,00160 -.66990 -.23020 .74190 1,14010 1,43020 1,43020 1,56400 1,75400 1,16670 1,16670 CD ..13010 ..13010 ..12520 ..12600 ..12600 ..12600 ..12600 ..13600 ..250000 ..25100 ..26730 ..13760 ..26732 ..26732 ..200320 ..200320 ..200320 ..267220 ..267220 ..26 CAB
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. 91689 4.06 GRADIENT INTERVAL = -5.00/ 5.00 CA .13670 .13210 .12660 .11210 .11310 .10190 .09810 .09810 .10870 CBL - 59910 - 99910 - 99910 - 99910 - 99910 - 99910 - 99910 - 99910 - 99910 - 99910 CYN
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.11630 .10630 .09960 .09960 .198600 .112300 .15460 .118190 .118190 -.12120 -.08030 -.08030 -.01060 .01060 .15940 -.27540 .33380 .33380 CA...11:310
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...10160
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...07190
...07190 02740 020740 020800 020800 020790 020790 020790 020790 020790 020790 020790 020790 020790 020790 020790 020790 11.550 15.590 15.630 17.660 19.600 9.510 3.410 3.410 3.410 7.460 9.310

4.92 GRADIENT INTERVAL = -5.00/ 5.00

REST.

-.75370 -.75370 -.36480 .10990 .61360 .99140 1.38750 1.63190 1.78130 1.82120 1.06990

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DATE 28 SEP 73

TABLEATED SOURCE DATA - MSFC TWT 574

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HSFC 574 (OA48) CRB 1398

(Re7022) (16 JUL 73)

-14,250

ELEVTR = BOFLAP =

000.

BETA = AILRON = SPDBRK =

PARAMETRIC DATA

REPERENCE DATA

##CDF = 2495,5000 80,FT, 304P = 638,7000 IN, LRCF = 474,6000 IN, 746P = ,0000 IN, BRCF = 936,7000 IN, 246P = ,0000 IN, 8CALE = ,0040 RUN ND. 26/ D RN/L = 4.07 GRADIENT INTERVAL = -5.00/ 5.00

1,71350 1,67870 1,62150 1,54830 1,54830 1,33990 1,32340 1,17520 1,11650 1,11650 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,11630 1,1641 CD .27430 .31670 .36840 .42240 .42240 .569370 .742210 CL .47000 .53167 .53167 .53269 .65470 .77120 .77120 .921540 .921540 .921540 .921540 .922530 .922530 .922533 CAB -01720 -01720 -01760 -01760 -01760 -01760 -0166 CA .09160 .0830 .0830 .0730 .0750 .0760 .0706 .0670 .0640 .06140 786. 2000. 200 0.0000...
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0.0000... 1,20610 .336.0 .61240 .61240 .77410 .93670 .9477 1.03200 24.820 26.730 26.730 26.600 30.800 35.120 37.120 37.120 37.210 39.270 41.280 20,530

N NO. 27/ D RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

TABULATED SOURCE DATA - MSFC TWT 574 DATE 28 SEP 75

MSFC 574 (OA48) CRB 1398

(RerD23) (18 JUL 73)

PARAMETRIC DATA

PAGE 36

REFERENCE DATA

		REFERENCE DATA	٤						
SEC	n # n #	SMED" = 2000.0000 30.FT. LMED" = 474.0000 IN. SMED" = 936.7000 IN. SCALE = .0040	XXARP YMRP ZMRP	6 11 11	= 636.7000 IN. = 10000. = 1.0000 IN. = 1.0000. = 1.0000.	BETA : AILRON : SPEBRK : 999.	000. 000.	ELEVTR = BOFLAP =	-14.250

54/ 9 RN/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

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***	5	¥	Շ	ž	5	5	}	}		
	;	į		1		2000	1	057.10	. 86500	
C67 C7	C. 656.	05220	03560	02730	000	5				
				2000	0.600	CREAC	5,100	.94760	.94750	
2000	1,43690	.0244D	03519							
		0000		C3400		06290	.00150	.97620	2019	
44,360	1.42620	2000						07900	477	
				00750	00000	06090		2000		
46.400	7.0000						4.00	1.01560	1.23240	
	C080% -	02120	03680	00100	08400	2 (613				
	-				00000	74467	CALCULA	1.02400	1.33000	
	1.67760	0,000.	0.000		-::					
					. 170,540	0.5370	0000	1.02660	1.42560	
52,500	1.75690	06220	5000	3				•	Choca	
			04060	- m7111	05520	.05360	02020	2.007.75	1.0000	
8	1.61320	occes.	3	•	. !		Cathoria	CK +00	4. 48200	
		20.50	00720	5.55	00500	0.0100	01077			
8					0.000	0.000	CKU.	08478	1.64490	
505	1.89780	06260	E-650		-117,010					
				07600	03500	CAMPO	-,00100	£116.	1.73300	
015.09	1.93120	37.65			1000					
		999	(1/01/0	01200	CT.700	0.00	0200	Lecan.	11001	
20.47	1.1000.1	Cherr.	-				*******	******	DA2A4	
2010101	77770	000000	V 64 11 11	1	へてこう	200	4 C(2 %) . 1	1 1 1 1 1 1		•

CONTRACTOR OF THE PROPERTY OF

(R87024) (18 JUL 73

.000 ELEVTR *
BOFLAP = PARAMETRIC DATA 000. BETA :: ATLRON :: SPDBRK :: MSFC 574 (OA48) CRB 1398 .000 1N. .000 1N. ž ž ž REFERENCE DATA 2950,0000 34.FT. 474,8000 IN. 836,7000 IN.

1.51020 .06685 1.7450 3.21290 4.17460 5.93165 3.42010 3.42010 2.79930 4.36507 4.36507 CC .06040 .05630 .056340 .056340 .056340 .140380 .140380 .140380 .130960 .24510 .355110 .05671 4.90 CRADIENT INTERVAL = -5.00/ 5.00 C4 .03960 .03910 .03960 .03960 .03960 .03260 .03200 .02200 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .02290 .001600 .02290 .001600 .02290 .001600 .02290 .001600 .02290 .001600 .02290 .001600 .02290 .001600 .0 CSt.
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20220 -.01163 -.011763 -.011763 -.01529 -.01529 -.01759 -.01759 -.01759 -.01759 -.01750 -.01750 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 1.440 5.570 5.570 5.660 7.760 9.870 11.970 14.100 16.170 16.300 20.330 A * * * * * * * * * * * * * *

6.21 GRADIENT INTERVAL = -5.00/ 5.00

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DATE 20 SEP TS	SC 73	TABU	tabulated source data – MSFC Tut 574	E DATA - ME	UFC TAIT 574					PAGE	5 CE
			MSFC	HSFC 574 (0A48) ORB 1298	ORB 1296				(R87024)	4) (16 JUL	u. 73 J
	REFERÊNCE DATA	E DATA							PARAHETRIC DATA	DATA	
		3		N1 0000 010				BETA =	600	ELEVTR =	000.
	NI 0000-174	IN. THER	t 11	. NI GOOG				ATLRON =	000	BUFLAP =	-14.250
	.NI COCT . 859		••	.NI GOCO.				SPCBRK =	999.990		
4.0	.0540										
		RUN NO.	NO. 91/ 0	RN/L =	5.66 GRA	GRADIENT INTERVAL =	VAL = -5.00/	2, 5.00			
3	į	8	X	č	ž	ĕ	3	S	ರ	8	S
5		00310	.05330	01510	.00310	06000	00691	.05260	00190	.16900	01170
196		.12660	.02600	D169D	00200	09000	.16720	or 150.	.12100	17000	.71260
1.198		.26130	.00040	01810	.00310	00030	.16430	02150.	.24940	.16195	1,37100
1.190	6.150	39090	02030	01950	.00330	01000	.16073	.05300	.37140	20102	1.64120
1.198		.90670	0.0000	01960	.00270	06000*-	.15585	.05380	.46060	.2825	2,10590
1.196	=	07659.	04450	92770	.90549	.00190	.15310	.05740	.60060	.26620	2.23867
1.198	•	.77850	06220	02750	.50480	07100.	.15180	.06180	. 72530	.32110	2.25670
1.196		90400	07600	02510	.001280	00110	.14950	.06360	.63390	.37980	2.19540
1.198		1.02450	06900	02550	.00210	00180	.14660	.06530	.93460	.44450	2.10250
1,198		1.12550	06590	-,02690	06100.	00160	.14500	02020	1.01270	.51210	1.97750
1.196		1.21860	06370	02680	.00140	00160	.14180	.07250	1.06110	. 57990	1.86420
1.190	10.610	.64260	04500	02715	.00510	.00210	.15260	.05670	.60350	.26630	2.24870
	GRADIENT	.06104	01221	00069	00000	-,00005	00109	00032	.05802	.00301	. 31897
		RUN NO.	NO. 62/ 0	RN7.	6.52 GRA	DIENT INTER	GRADIENT INTERVAL = -5.00/	2/ 5.00			
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ğ	¥5	3	5	ָרָל בּיִי	1	,	, , ,		0770	00071	30010
1.951		02070'-	5610.	06500	ocen.	DOCUTO.	14000	03200	03670	.14190	.25660
108.1	1.560	1		0.00	00000	Detrui -	13820	03260	12200	.14640	.63310
1.951		13161.	0.000	00810	00100	02000-	13750	.03220	.20700	.15960	1.29670
100			200	0,600	6	02000-	.13370	.03270	39120	.17650	1.65000
1.801	250.01	40110	03060	01680	.00180	00045	.12900	05250	37170	.19640	1.87300
	12 430	4796	03240	01749	07100.	000.40	.12270	.03360	.44220	.22300	1.96260
160	14.660	.57263	03660	01840	.00130	00100	.11610	.03320	. 52420	.25920	2,02190
1.951	16.650	.67190	04100	01910	07000.	00100	.11490	.03290	.60980	35470	2.0007
1.951	19.050	.77360	04630	01770	02000*	00100	.11110	.03420	.6949!)	.35760	1.94330
1.951	21.160	.67139	05150	01790	-,00040	06000*-	.10610	.03480	.77350	.41540	1.66190
1.951	10.200	.40270	-, 02990	01680	.00160		.12790	.03210	.87350	.19760	1,69000
 	CRADIENT	71150.	00519	-,00019	20000	90005	00103	.00033	.03671	.0000	.26595

2		-14.250
(R67024) (18 JU. 73	C DATA	ELEVTR = BOFLAF =
S	PARAMETRIC DATA	000.
	•	BETA = AILRON = SPDERK =
NSFC 574 (OA48) ORB 1598		YARP = 636,7000 IN. YARP = .0000 IN. ZPRP = .0000 IN.
		H W II
	_	NAME OF STREET
	REFERENCE DATA	2990,0000 94.FT. 3 474.8000 IN. 3 996.7000 IN. 2

33/ D RNL = 4,06 GRADIENT INTERVAL = -5,00/ 5,00

		i	į		3	ē	ฮ	3	ರ	8	2
ğ	4	5	Ë		;				22110	13070	1.73750
		01676	01100		02000	01000	25160.				
2	200.6						19204	.01580	05290	10640	L 987
084-9	280	03400	5112						50000		0.03600
		VILLE OF THE PARTY	2.0.0		00000	OSCUO.	.10620	00910	OKCON.		
2.930	1.410	2000				5000	10270	00910	.04695	CL 501.	.44380
2.990	3.490	.05320	01030					6440	0.50	10000	.94750
	465	0.2511	01010		00000	01000	07060	2010.			
7					010001	01000.	.09440	.01580	.16230	00×11.	1.38710
2.990	7.610	17650					06190	31590	.22419	.13540	1.71373
2.990	9,690	.24290	01120	00150	arron.	CTC CO	2000	000	28500	0.14920	1.90980
	11.760	30950	01260		0001	cocoo.	organ.	5000			6
		Cheek	146.0		CCCCC.	00000	.06580	.01600	.35060	.17490	
2.990 2.990	13.960	. 2625	2776			COLOR	08340	.01590	41380	.20490	2.01890
2.990	15.933	.45410	01639			-			00001	24100	1.97890
8	197.44	53020	01750		01000	00000	06190	0010	1300/4		
			- CADAD		050000-	CCCCC.	01670.	.01630	. 54060	01102	1.96361
2.930	20.00	. 67430					- mit.	1000	02720	27200	.21406
	GRADIENT	.02914	.0000		CANAG.	encon.					
		G S	NO. 32/ 0	· D RBLL ·	4.89 CRA	PRADIENT INTERVAL	WL = -5.00/	9.00			

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•	Š	5	5	,			DARAC	00360	06220	.06640	71960
	-,540	-,06300	02660	00210	CONT.	2			C8780	00200	33950
	1.390	02580	02470	00290	06000	00000	7297	0.000		25.00	
	2.410	04090	02120	01000	07000	00000	.06120	orsoo.	ceto.	00000	
			10.00	Carren	OECCO.	02000	02970.	07500	.03330	00290	54.0
	0.400	2000			DYC:40	-,00020	02570	07500.	03660.	.06710	1.14260
	7.490	2011	0.010.1	9	10000	O.C.C.	07170.	00360	.15110	.09810	1.54040
	9,530	.16920	01460	00140	o contraction		0690	06800	.20120	.11250	1.76610
~	11.560	.21960	01360	00090	Correct.		00000	00700	25680	.13250	1.93610
-	13.620	09093	01200	00100	06000	יייייייייייייייייייייייייייייייייייייי		207.00		1.15840	2,00810
_	15.670	.34910	01470	00170	61000	00030	0990	00000	17260	18790	1.98320
•	17.710	.41230	01500	00230	cocou.	-,00000	09690	06000	0044	22410	1.94460
-	19.660	.46610	91360	00240	.00010	00040	.06460	0.6000	CELCE.	19761	1.55640
	9.530	.16600	01439	C4000	09000	O(1) 20)	01110	136130		10000	72082
3	RADIENT	.02113	.00137	96000	-,00003	\$0000	90116	60,00	99610	200	

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MSFC TAT 574
TABULATED SOURCE DATA - MSFC TAT 574
DATE 26 SEP 73

PAGE 40	(Retues) (se Jul. 73)	PARAMETRIC DATA	BETA = .000 ELEVTR = .000 AILRON = .000 BEPLAP = -14.230 \$PDBRK = 999.990
TABULATED SOURCE DATA - MSFC TMT 574	MSFC 574 (OA48) ORB 1595	2	.NI 0000, = 4944 .NI 0000, = 4944 .NI 0000, = 4945
r se sc -3		REFERENCE DATA	U = 2090,0000 90.FT. U = 474,000 IN. U = 936,700 IN.

GRADIENT INTERVAL = -5.00/ 5.00

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Ş	Ę	5	5	5	;	}	1			27848	17757
•	5	C. COOR	00000	P. S. S.	-,00050	.00030	.07130	.01760	26768.		
			200	52.60	06000	00010	06030	01670	.54650	.29110	1.6769
	20.02			02401	Cancer -	02000	02830	.01660	.607ZD	.33750	1.79690
2	25.33		OECON!	07900	00000	02000	07620	.01650	.66970	.39140	1.71100
Z.990		DELL'S	27.50		0110	00000	07470	03690	.73420	.45420	1.01627
2.9	26.770	01000	15110	2000	0110	00030	07210	.01710	. 79510	.52030	1.32800
2.980	000	06748.	0.00	0.610		09000	06070	.01750	.85480	.59530	1.43600
0	0.00	1.03930	-,03910	101460	0.000	-,00040	09990	01010.	.91140	.67490	1.35040
W. 990	33.040	orgen.	9656		CHOOL.	-,00110	06710	.01630	.96490	76200	1.26620
2	35.180	1.55770			00000	00110	DEST.	.01840	1.01360	.65160	1.19040
	36.76	1.36630	CK WAY	0460	.00150	-,03220	.06160	.01850	1.05530	.94490	1.11670
		. 20440	0000	0.020	00100	-,00200	.05910	.01620	1.09080	1.03770	1.05120
	GRADIENT	.04329	00200	1,000	.00012	00010	-,00100	10001	.02669	.03624	0403

		RUN	NO. 31/ 0	# 7	4.91 GRA	RADIENT INTERVAL	/AL = -5.00/	9.00			
	77 67	5	×	Ծ	£	ਰ	5	8	4	8	\$
		5		- 00440	Ceuch	07000	06750	.00340	.44920	S3770	1.66920
				6	00100	0,000	06660	.00360	.51030	.28040	1.61980
		06976	94.50	0.745	09000	05000	0.06670	09800	.57610	.33270	1.73120
	2.2	200	07460	0.2900	09000	-,00060	.06540	.00360	.64260	39110	1.64320
	8:3			0000	06000	06000	.06510	06000	06669.	.45190	1.54870
			02.940	06900-	0,000	00140	Cesso.	.00400	.76330	.52230	1.46140
			1995	06600	-,00030	-,00140	.06180	.00410	02020	. 59530	1.37750
			- 03900	01120	-,00020	00160	06160	00,400	.88080	.66170	1.29180
			04420	01370	0,000	00170	08860.	00800	.93400	.76490	1.21470
96.		30160	06950	01350	-,00020	00160	.05960	07500.	.97927	.65960	1,13950
		0.00		06210	0,000	00160	00650.	.00350	1.01960	.95220	1,07070
		Der 26	C07.50	06900	-,50100	00150	.06320	.00360	.76419	.92200	1.46370
	GRADIENT	06290	00195	-,00055	*0000°	-,00006	00045	100001	.02040	.03518	04102

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(Retobe) (16 JUL 75)

PARAMETRIC DATA

.000 -14.25 ELEVTR : 000.

BETA ... ATURON ... SPOREK ...

CRADIENT INTERVAL # -5.00/ 5.00

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.0000 IN. .0000 IN.

2000,1000 30.FT. 474,0000 1N. 336,7000 1N.

REPERENCE DATA

CA .06130 .06030 .05600 .05610 .05420 .04320 .04430 .04430 .05460

.00240 .00240 .00220 .00220 .00140 .00140 .00140 .00140 .00140 .00140

C. 1.00340 1.03910 1.07240 1.02740 1.12650 1.12460 1.12460 1.08210 1.02110 1.12620 1.12620

CBL -.003040 -.009640 -.00960 -.00960 -.00960 -.00770 -.00770 -.00960 -.00960 -.009610 -.009610

-.06110 -.06120 -.06330 -.06330 -.06640 -.06670 -.07630 -.07630 -.07630

1.36960 1.46010 1.95760 1.65270 1.74690 1.91700 1.91700 2.09410 2.09410 2.13670 1.63640 1.63640

40.390 42.310 44.570 46.410 46.400 30.480 32.310 34.570 36.570

60.320 90.460 PRADIENT

.93440 1.08730 1.13140 1.83710 1.45110 1.55310 1.61410 1.61410 1.45160 1.45160

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TABLEATED SOURCE DATA - MSFC THE STA

DATE 28 SEP 73

HSFC 574 (OA48) ORB 1598

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DATA
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DATE 28 8EP 73

(Retoet) (se Jul.

.000 13.750 ELEVTR = PARAMETRIC DATA .000. 000. BETA = ATLRON = SPOBRK = NGFC 574 (OA46) ORB 1398 .000 1M. .000 1M. .NI 0000 . EDEREKE DATA F. 48 0000 08 474.8000 IN. 936.7000 IN.

1.730 1.24030 2.65300 3.66620 4.24310 4.24310 3.77730 3.77730 3.77730 2.37600 2.34000 2.46000 4.26300 00600 00600 00600 007000 00700 00700 00700 00700 00700 00700 00700 00700 007000 00700 00700 00700 00700 00700 00700 00700 00700 007000 00700 00700 00700 00700 00700 00700 00700 00700 007000 00700 00700 00700 00700 00700 00700 00700 00700 00700 00700 00700 00700 00700 00700 00700 00700 00700 00700 .0350 .0350 .03430 .03430 .03430 .03560 .04660 .04660 .05210 4.66 GRADIENT INTERVAL = -5.00/ 5.00 C4 .06590 .06570 .05770 .05870 .05870 .05870 .05870 .05870 .05870 .05870 .05870 .05870 .05870 .05870 .05870 CTN
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-,03380 <u>₹</u> ALC 00010. 0 01210 -- 201210 0 4,744 1,480 3,800 3,670 7,790 12,000 14,200 14,200 18,300

-,34300 1,10170 2,24310 2,26230 3,04440 2,70300 2,20180 3,073510 3,073510 CD .07710 .07710 .11290 .11290 .11290 .11290 .11290 .11290 .14310 .25250 .25250 .43660 .43660 .17990 .00352 CAB .03750 .03750 .03770 .03770 .03770 .03770 .03770 .04020 .04670 .04670 .05270 .05270 .05270 .00020 .00005 CA .07690 .07740 .07740 .07910 .07900 .07900 .09340 .09340 .09340 .09350 01.430 01.430 01.430 0.00220 0.00220 0.00220 0.00420 0.00420 0.00430 0.00430 0.00430 0.00430 004 002010 002013 002013 002020 0020 0020 002020 002020 002020 002020 002020 002020 002020 002020 002020 002020 002020 002020 002020 002020 002020 002020 002020 002020 00 ALMA --,900 1,570 3,780 3,780 10,270 10,270 11,480 ********

5.19 GRADIENT INTERVAL = -5.00/ 5.00

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TABULATED SCHRCE DATA - MSFC TMF 574

Genten (16 Jul 73)

PARAMETRIC DATA

METC 574 (OA48) ORB 1998

	.000
DATA	BOTAL .
PARAMETRIC DATA	000.
	BETA
	P = 636,7000 1M. P = ,0000 1M. P = ,0000 1M.
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REPERENCE DATA	MET : 2000,0000 30.FT. 198P LEET : 474,0000 3H. YMP MET : 936,7000 3H. ZMP SCALE : .0000
	200 × 200 ×

1 t	ţ	FREM ND.		•	¥	2.2	RADIENT INTERN	INTERVAL = -5.00/	8.90			
i	1		3		8	3	8		3	d	8	\$
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			46.00		0480	580.	06000		.06410	08880	.16060	.16430
							00000		06290	503	.18900	0779
200	8.3										-	. 18680
500			045		-,01950	06000	9000		.06330	02042	73667	7
					07140	000000	00000		.06330	.41360	2112	1.66720
- 1							0000		06790	. 52420	.25190	2.04350
	2.5									20077	50704	00000
1.195	30.60		78.		- 000 C	R 8 8 9	01000					
			2716		-, 0ee30	00500	01000		00690	.76550	34600	K.1990
	1					CKELO	00140		00220	.06110	.41200	2.13840
	13.130		1001						07460	97660	47820	2,04190
561.	17,280	•	-11420		05030							
1	10.400	-	.1439		0200	01200	 60.00.			1.05530		1.35650
					05220-	00000	00210		08380	1.12510	66100	1.61160
					- 107.60	0.2500	00000	0.000	06090	.64660	. 19490	E.E0230
										57860	00.424	23411
			-, D1V		 1980.	CHYMO.						-

		RUN NO.	NO. 63/ 0	BVL =	6.55 GRA	RADIENT INTERVAL =	M = -5.00V	9,00			
į		5	ž	5	ž	ŧ	5	3	ರ	8	\$
				04490	01300	01000	.14760	.03200	042240	.14790	15600
				01440	02200	-,00010	14620	.03390	.05060	.14780	.39630
				01470	07-40	-,0000	.14530	.03420	.14550	15000	0886.
100.			2000	000	00000	00030	.14490	.03450	.235TO	.10960	1.39000
			05750	0.01670	COSCO.	0.2000	.14160	.03350	.32120	J. 1867	1.70220
		01769	06480	09210-	06100	00060	.13730	.03240	.40560	. 21300	1.90360
	4	91640	06790	01790	06100	00070	.13000	03170	.47820	.23660	2,00350
	77.	0.90	0.220	07810	or 100.	-,00060	.12510	.03340	. 55530	.27440	2.02320
		07277	08120	-,01940	.00110	00110	.12510	.03490	.64570	.32660	1.97720
			00000	01660	csccc.	00119	.12310	.03600	.73150	.36310	1.90910
		0000	02500	01730	00000	-,00090	.12050	08860.	.80510	.44090	1.82600
		05527	00190	01660	00100	0,000	.13290	.03160.	.39510	.20630	1.91260
	MADION	04234	90900-	00014	,0000	0000	00054	.00052	.03969	oz 100.	.25777

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_	DATA	ELEVIR = BOPLAP =
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38	PARAMETRIC DATA	000.
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		BETA #
		BETA ATLRON :
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	REPERENCE DATA	Ė
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		. 7000 . 9000
		N W N N
		SECT = 2000,0000 SB.FT. LMCT = 474,0000 IN. BRCT = 936,7000 IN. SCALE = .0040
)		# # # W

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FAGE 44 (19 JUL 73)

		EN NO.	0. 34/ 0	87. "	4.07 GRAD	GRADIENT INTERVAL = -5.00/	L = -5.00/	8.00			
7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ALPHA960 1.380 5.540 5.540 7.610 9.660 11.760 15.990 15.990 16.000	CA - 046820 - 068340 - 182510 - 182510 - 40060 - 47560 - 47560 - 55350 - 63250 - 53250 - 53250		CY0001100006000060001600016000160002100021000230	CTN .000.	.00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	CA 11040 110910 10990 10950 109590 109590 109590 109590 109540 109640 109640 109640	0	.00420 .00420 .03680 .11460 .17370 .23690 .36710 .49940 .56490 .24290	.11090 .10920 .10960 .11370 .11370 .13730 .13840 .13830 .25550 .13830	1,7560 1,7550 1,100790 1,1200790 1,72470 1,96630 1,96630 1,96630 1,96630 1,96630 1,96630 1,96630 1,96630 1,96630 1,75560 1,75560
4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ALPAA 960 1.360 5.460 7.490 9.530 11.590 11.590 11.730 11.730	ON	CLM02970029700297002900029000290002900029000290002900	# FRVL = COT	CYN CYN CODE CODE CODE CODE CODE CODE CODE CODE	COL CADIENT INTERVAL = -5.000 COL CA	CA	• • • • • • • • • • • • • • • • • • • •		.06750 .06320 .06320 .06500 .05900 .10320 .13950 .16630 .24020	59550 21960 25740 77140 125070 160327 161450 192680 192680 192680 192680
)) •	CRADIENT		.00061	90000:-	-,00015	-, 110:002	00121	***************************************			1

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	REPER	REPERBICE DATA	₹							- Warden of	<u> </u>		
			1		:					000	ELEVTR =	000	
	2000.000 90.7.	r.		K.06.	836.7050 IN.				A TO BON A	000	BOFLAP =	13,750	
	474,8000 IM.	r i		ស្ត ស្ត	.0000 IN.				SPORK =	999.390			
*	#36.7000 IN.												
BCALE :	.0043												
			REM NO.	377 0	# 7 /8#	4.06 GRA	CRADIENT INTERVAL = -5.00/	VAL = -5.00	00'8 /0				
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		_	E S	05050	02630	0,000	-,00030	09190.	.01780	.56550	.30550	1.65060	
	- •			0.000	00000	00070	00040	.08690	02720.	09629	.35550	1.77160	
				06430	00000	00110	-,00040	.06490	.01710	.69410	.41110	1.66810	
				07.0	07870	-,00090	-,00090	.06490	02710.	.760 0 0	.47830	1.59060	
			Ş	00000	01150	-,00000	-,00059	.06350	.01690	.62370	.54920	1.49960	
				0000	01210	09000*-	-,00000	.06230	.01710	.88550	.ee770	1.41070	
				20960	-,01990	00000	-,00100	.06130	.01740	.94250	.71030	1.52690	
			9	-10220	01740	.00000	00160	04090*	.01760	.99620	.60290	1.24300	
			9	11150	01960	06000	00190	.07820	.01780	1.04580	.69540	1.16790	
			R	11990	02020	.05140	00210	.07660	09710.	1.06620	.99360	1.09500	
95			99	-,12650	-,02040	06000	-,00200	.07520	02710.	1.12310	1.09060	1.02960	
				-,06560	01260	-,00000	-,00060	01290.	.01710	06999*	.62960	1.41180	
	8		.04473	00370	-,00066	60000	00010	00057	00000	.02715	.03766	04000	
			RUN NO.	36/0	# 1/A8/	4.90 GRA	GRADIENT INTERVAL = -5.00/	/AL = -5.04	9.30				
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Š				ð	b	N I	3 6	5		5697	24940	1.66150	
4.938		_	.52660	04190	0000	-10.000	2000			77548	29460	1.80720	
4.93			02709	04960	0.00	03000	-,00250	00000	00000	59950	34860	1.71950	
4.93	_	_	00000	06060-	orego.			- A	0.500	06030	41040	1.62810	
	_	•	onie.	0,000	0.000			0220	07500	.73410	.47850	1.53400	
4.938	096.82	•	67330	04440	0.010	- 100040	00120	07250	09200	.79590	.55210	1,44320	
		•		5,020	05260	01000	00160	01220	.00350	.86110	.63430	1.35760	
				00060*-	-,01190	00010	00100	.07260	.00349	.92210	.72460	1.27240	
9				09000	01360	-,00010	00150	.07230	.00330	.97490	.61610	1.19450	
			061	10650	01490	-,00040	-,00150	.07260	.00310	1.01690	.90860	1,11890	
4.939			092	11570	01619	00050	00160	07570.	00800	1,06045	1.00970	1.05020	
4.939			.97120	-,57100	00950	00010	00120	.07290	.00340	.6005	. 55470	1.44300	
	5		76570	00363	-,05052	-,00000	00002	10000	20000	.02935	.03726	-,04135	

DATE 20 SEP TS	5. 5.	TABLE	ATED SOURC	TABULATED BOURCE DATA - MSFC TMT 574	UPC TAT 574					PACE	¥
			276	HSFC 574 (OA48) CRB 1356	ORE 1396				(R87029)	9) (16 JUL 73	ر ت ر
	, repende	DESICE DATA							PARANETRIC DATA	DATA	
MO :	2890,0000 98.FT. 474.8000 1M. 936,700 1M.	2	# # #	.0000 1M.				BETA = ATLRON = SPCBRK =	000.	ELEVTR = BDFLAP =	13.750
		CH NUR	o. 92/ 0	BAL =	4.95 CRA	OIDH INTER	CRADIENT INTERVAL = -5.00/	3.00			
	1	5	×	b	Ē	를	5	8	ರ	8	\$
		. AP760	-,12530	G6650	00630	-,00900	00000	09000*	1.03570	.98620	1.0501
	42.300	1.52330	13500	03973	-,00650	00930	07910	06000	1.07330	1.06360	2066
4.00	44.360	1.62160	-,11030	-,03860	-,05620	-,00960	07770	5 2	1.19470	1.16950	8673
4.93	46.400	1.71930	15440	03970	00670	-,00990	06640.	06100.	1.12770		18018
4.93	46.490	1.61540	16390	03660	00610	00940	09640	oraci.	1.1410	- APUSO	7576
4.93	50.470	1.90610	17290	04195	00390	00840	07970	מטבטט.	115510	1.62860	7067
4.939		1,99280	17420	24173	00610	-,00630	Carro.	00000		171690	0099
4.950		2.05590	16430	04230	-,00500	-,00740	07250	0000	1.10590	1.65670	.6114
4.959	56.570	2,11870	16260	04280	02500-	08000-	מיינים.	00180	0.07030	1,88890	. 5666
4.955	36.49D	2,16990	15140	04120	00000	oleon.	Ceaso.	90110	1,02990	1.96070	. 5252
4.958	60.520	2.21370	14640	04150	12500:-	06/00	0.2000	00210	1,15380	1.52300	. 7575
4.999	50.470	1.90910	17140	0.000	02600 70000.		00055	.00003	10000-	.04938	0259
	GRACIENI	evecu.	19100								
			¥8¥	MSFC 574 (OA48) ORB 1398	GRB 13 98				(R87030)	0) (18 JUL 73	ר מ ז
	DIGUGU	ENERGE DATA							PARAMETRIC DATA	: DATA	
							_	BFTA =	000	ELEVTR =	000°
6	2000.0000 50.FT.	de de	H II	638.7000 IN.				ATLRON =	000	BOFLAP =	000
SCALE .	936. 7000 LN.	2	1 11	NI OCC			-	SPCORK =	066°666		
		Š		517 D RN/L =	4.97 GR	GRADIENT INTERVAL =		-5.00/ 5.00			

1.07450 1.00910 .94460 .86350 .7260 .7260 .66970 .65310 .57600 .53520 CD ..94650 1.104390 1.14900 1.14900 1.14900 1.15670 1.56240 1.756870 1.756870 1.756870 1.756870 1.91150 1.47640 ..14699 CL 1.01710 1.05350 1.18540 1.11040 1.13080 1.13090 1.12090 1.12090 1.05210 1.14070 CY
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-.03660 -.06130 -.06630 -.06630 -.10630 -.11750 -.11750 -.11750 -.11750 -.11750 -.11750 04 1.36600 1.57949 1.57949 1.67990 1.96349 2.01360 2.12619 2.12619 1.66469 42.330 44.360 46.400 48.440 52.510 54.560 56.570 56.570 56.570 56.570 56.570 56.570

4 PAGE

(R67031) (16 JUL 73)	7.4	BOFLAF = .000
(Re7031)	PARAMETRIC DATA	.000 E000 80
	_	BETA # AILNON # \$PDBRK #
MSFC 574 (OA48) ORB 1598 WALT NOSE		* 636,7000 IN. * .0000 IN. * .0000 IN. *
	<	X
	REPERENCE DATA	244.8000 1N. 474.8000 1N. 936.7200 1N0040

		2	RUN NO.	0 /201	RW.	5.00 GRA	RADIEN INTER	MTERVAL # -5.00/	5.3			
	\$	5		=	Շ	ğ	ŧ		3	ರ	8	S
	- 300	~.05180		1570	01160	.00240	00100		.02960	05130	09950.	90600
	1.480	04350		4390	01310	.00230	.00110		.02750	.04210	06550.	.73200
	3.600	14690		7560	01610	.00200	03100		09920	.14560	.05790	2.51250
8	000.5	24570		25.00	01710	.00260	02100		06030	.24060	06390	3.76440
		36390		0272	07020	.00250	.00040		.02790	.35620	06770.	4.57150
	0.6	48460		62.02	02190	.00200	09000		02620	.47390	.10360	4.57500
	12,010	. 60230		0222	D2210	06100	00000		.03173	.56390	.14990	3.89440
	14.140	71860		C661	02720	02500	00130		.03480	06699.	.20200	3.40120
	16.240	09009		000	03110	01900	-,00130		.03940	.78840	.26260	3,00150
	10.360	06266		000	05520	.00410	00210		.04160	.93660	.33620	2.76910
	20.390	1.15310		-,00960	03640	02000		00220	03970	1,05450	.41530	2.53860
	010.0	.46400		3170	01900	07 200.	.00100		06620.	.47300	.10490	4.52310
	CAADIENT	9667		5/00	00110	.00003	\$0000		.00049	.04603	.00032	.63374

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į	510	07440	06990.	04990	00470	GS TOU'	01.20	.02850	07360	.06780	-1.06860
	1.590	04190	.05740	02290	.00460	.00120	.06660	.02880	.04000	04190	. 59120
	3.750	08601	0.04610	02330	.00450	00100	.0662C	00620.	.16510	02610.	2.06240
	076.9	.28560	02520	02430	.00440	00100	06790	02620	.27700	01760.	2.65330
	080'9	.40270	08020	02710	02750	00050	.06830	.03110	.38910	.12430	3.12990
	10.270	. 53000	02900	02940	07400.	00180	.06640	.03370	.50930	.16190	3.14549
	12.480	.66590	00940	02640	.0320		OK690.	03590	.63470	.21170	2.99710
	14.000	.79750	CMOSO.	03060	00419	00430	00110.	.04120	.75340	.27090	2,76050
	16.000	.92530	00620"-	-,03230	00200	00320	.07240	.04570	.86459	.33770	2.55990
	19.010	1.03780	02750	-,03130	00200	00300	.07470	.05310	.95670	.40860	2.34910
	001.42	1.12430	-,00500	06920*-	01000	00450	COCO.	.06280	1.01960	02097	2.12360
	10.270	.52780	.00660	02520	06800	00140	0.06790	.03230	.90749	.16910	3.16840
u	RADIEM	.05736	-,00479	-,00072	-,00005	70000	.00026	21000.	.05609	.00270	.74361

RUN NO. 105/ 0 RNVL = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

,	1	11641	TABLE ATED SOURCE DATA - HSFC TAT 574	DATA - MS	FC TM 574				٠	, ACE	64
DATE 28 SEF 73	c L		rs.f.c	574 (OA48)	MSFC 574 (OA48) ORB 1398 W/ALT NOSE	ALT HOSE			(R6751)	Dr 619 CI	r r
	į	i						_	PARAWETRIC DATA	DATA	
	REFERENCE DATA	DATA							į		ξ
*	-F1-96 0000 06-FT-	T. XHEP	m 838	636.7009 IN.				BETA =	000	BOFLAP =	000
	474.8000 IN. 936.7000 IN.	YMRP ZMRP	H 11	.0000 IN.					066.666		
SCALE =	.0540					CBANTENT INTERVAL 3	/VT = -2'00/	00.5 /			
		ACN NO.	70. 104/ 0	ENVL =					(8	S
i	7 200	3	ð	Շ	Š	e	5			.16720	.19750
10 T	360	06910	.04420	01660	.00410	06000	16730	0.5570	14330	21.070	06669.
105	1.720	.14840	.01530	-,01660	.00410	08000	.19639	05520	.27160	.18345	1.46070
1.195	3.960	26370	01190	01960	02420	0.000	16070	029603	.39230	.20410	1.92150
1.195	6.100	.41190	03160	08020*-	10000	00000	.15710	.05760	50270	.23300	2,15660
1.195		53130	04219	-,021150	0.000	00150	.15420	.06039	.62220	.27360	2.27380
1.195		00239	05730	00000-	00600	06100	.15330	.06420	74670	.32780	2,27780
1.195		90:00	-,07700	- COSE40	09206	-,00100	.15150	.06740	.86089	05885°	000000
1.195		.9326	C#260*-	- 12749	90319	00160	.14820	.07040	.95760	.45410	. 97740
1.195		1.04940		- USAGO	.00339	00160	.14820	.07510	1.03670		25.76.1
1.195		1.15440		0.8850	.00280	-,00140	.14490	.07620	1,10710	•	1.000.1
1,195		1.24630	10200	- 02830	C2900*	00200	.15410	.05930	.62560		2.5001.2
1.195	10.630	.06374	-,01296	7000	,0000	00023	00072	00021	.05871	.ugist.	2
					9	COANTENT INTERVAL = -5.00/	VAL = -5.0	3.00			
		Z	RUN NO. 163/ 0	. KRC .)				!
			;	8	2	형	ð	8	ਰ		2
Š	ALPHA	5	5	100	08200	01000	.13750	.03230	.00510		05750.
1.949		3000	02700	01410	00270	,00000	.13480	. 53245	.08472	13550	COCTO.
1.949		24.2	08900	-,01499	.00259	00010	.13110	03130	3666	-	1.61950
1.949		P.7380	01840	01400	.00199	00000	J3171.	05050	0,505.		1.69490
1.949		0.00	02500	01470	.00160	00030	.12840	.03040	35766.		2,05490
1.949		07.277	-,92959	01540	07100.	07000	.12367	03190	00000		2,13020
1.949		22.90	-,03250	~.01520	.00150	-, ებიმ	.11670	08250.	COCK*		2.11060
1.949		61995	03710	01649	.00130	-,00090	.11650	.03340	orces.		2.05070
1.56		00924	04350	01619		-, nonso	.11530	16551.	05035		1.96480
		.62280	-,04980	01530	•	-, Droed	.11260	0.0000			1.87330
		01600	-,05640	01489	٠	-,00070	.11000	07950	CALLES.		2,06240
		44040	-,02850	01560		-,00070	.12230	.0320.	74740		.26541
	3	.04926	00538	-, 0000	70000-	00005	00151	**************************************			

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INDULATED SOURCE DATA - MSFC TMT 574	MSFC 574 (CA48) ORB 1398 W/ALT NUSE
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(R67031) (16 JUL 73)

	REFERENCE DATA	CE DATA							PARAMETRIC DATA	DATA	
200	2000,2200 84,FT. 474,8200 IN.			636,700 IN.				BETA = AILRON =	000.	ELEVTR #	900
BREF :	954, 7000 1M	23462	н	.0000 IN.				SPDBRK #	066.666		
		RUN NO.	NO. 142/ 0	BVL :	4.11	GRADIENT INTERVAL =	TVAL = -5.00/	60.8 /6			
Š	ALPHA	8	ð	Շ	Š	룡	ð	8	ರ	8	S
2.990	\$10	02260	06100	01000	or100.	00000	.10500	.01690	-,02160	.10520	20590
2.990	1.460	.03340	.20160	00930	.00160	cacca.	.10340	.01745	09060*	.10450	.29560
2.993	3,530	.09200	.02130	-, 90930	. 90139	-,00020	.10040	57720.	.09560	.10590	.80639
2.990	3.590	.15240	01000	07600	.00110	-,00039	. r9660	06710.	.14230	.11100	1.26150
2.990	7,660	.2178D	00300	01100	06000	00040	. D93en	.01780	.20330	.12210	1,66520
2.990	9.740	.28580	00445	01120	.0000	-,00070	09060*	01710.	.26640	.13760	1.93500
2.490	11.810	.35500	00610	01139	.00030	00199	.08950	.01800	.32910	.16030	2,05319
2.990	13.910	.42690	CO820	-,91200	.00010	00100	.08830	.01790	.39320	.18840	2,08640
2,990	15.990	.49920	91060	01220	02000	-100,140	.06550	00910	.45630	.21970	2,07630
2.990	18,090	37710	-,04390	01020	00070	00110	06390	.01790	.52260	.25865	2,02050
2.990	20.030	.65370	01870	01090	50150	-,00090	.06200	.01790	.5865.	.30100	1.94650
2.980	9.740	29062	00300	-,01090	67000	-,00060	.09060	07710.	02172.	.13870	1,95500
	GRADIDA	.02637	00003	.00032	00010	00005	00114	.00020	.02653	.00018	.25101
		2	•	3							
		•	Man 1417 U	1	CE-+	ADJENI INIEK	WANDIEN INTERVAL = -5.00	3.			
MACH	ALMA	8	2	Շ	N.	퓽	ð	CAB	ď	8	S
4.99		03370	01330	06900*-	.00190	02000	.00060	.00460	03300	G609G*	-,40790
4.939	1.440	06900*	01220	00770	.00140	00000	07770.	02700	06900*	06110.	06090.
4.939	3,430	.04690	01100	00650	.00150	-, 00030	.07630	.05480	.04420	.07810	. 55920
4.93	5.460	.09350	-,00470	00010	00000	09000*-	.01210	.00480	.06620	07090.	1.06830
4.93	7.320	.14360	-,00490	-,90780	0.000	00100	06070,	00900	.13310	01690.	1.49440
4.959	9.430	.19700	00429	-,00680	020GG*	09000*-	.06950	.00480	.18270	.19139	1.80410
4.939	11.590	. 25560	-,00500	~.00600	00000	-,00090	.06880	.00490	.23660	.11880	1.99110
4.959	13.650	.31880	-, 20610	-,00790	00010	00130	.06819	.00480	.29370	.14145	2.07640
4.959	15.690	.36420	00550	00580	00000	00130	.06812	.00460	.35150	.16960	2,07229
4.959	17.740	.45390	-,00830	,00650	00000	05120	.06810	.00480	.41150	.20320	2.02540
4.999	19.690	.52670	-,00960	00590	50035	00145	.06810	.00460	.47300	.24160	1.95740
4.939	9.580	201102	00330	00630	, nanen	.00040	.00000	.09490	.18670	.10240	1.822:00
	GRADIENT	.02090	.00056	01000	00010	00013	00100	\$0000	.01944	-,00045	.24356

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(R87232) (16 JUL 73) PARANETRIC DATA HSFC 574 (OA48) ORB 1398 W/ALT NOSE

PAGE 50

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	200°.	
	ELEVTR = BOTLAP =	
	000° 000°	
	BETA # AILRON # SPEERK #	
	X48 = 636,7000 IN. YHE = 636,7000 IN. YHE = 6000 IN.	
	e: 14 H	
	29 APP 7 29	
REPERENCE DAT	SAECF = 2000,0000 50.FT. LREF = 474.0000 IN. BAECF = 956.7000 IN. SCALE = .0040	
	SKET ::	
	# 5 # 3	

### ON CLM CT CTN #### ON CLM CT CTN ##### ON CLM CT CTN ###################################	CBL CA 002240	CAB .04560 .05170 .05560 .05560 .07750 .07750 .07520 .07520 .06230 .06230 .06230 .06230 .06230 .07700 .09070 .09070 .09070 .09070 .07560	CL 1.03690 1.11770 1.07570 .96580 .97570 1.05810 1.11210 1.14570 1.14570 1.14950	. 42660 , 49750 , 53110 , 53150 , 55720 , 65310 , 71370 , 71370 , 71370 , 71370 , 71370 , 71370 , 63760 , 63760	2.24640 2.24640 2.02550 1.79680 1.52780 1.35260 1.125260 1.17930 1.11110 1.22640
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	N NOS	Š	139/ 0	RN/L =	9 60.7	GRADIENT INTERVAL	7 3.00				
20.620 22.620 22.620 24.710 26.810 31.500 31.500 35.200 35.200 35.200 35.200 35.200 35.200 35.200 36.400	CN .65620 .73890 .82350 .91470 1.100710 1.19500 1.29210 1.39620 1.46290 1.57610	500000000000000000000000000000000000000	01830 02260 02260 02860 04150 04150 05280 05280 06280	01260 01230 01330 01330 01360 01560 02260 02370 02410	CYN DOZZED	CBL00110	CA .06330 .06230 .07530 .07530 .07520 .07520 .07520 .07520 .07520	CAB .01830 .01810 .01910 .01910 .01910 .01920 .01920 .01930 .01990	CL \$8660 . 65040 . 71400 . 71400 . 71400 . 90440 . 90990 1.06010 1.06010 1.13590 . 90940 . 90940 . 0.2683	.30980 .35990 .41810 .48740 .93540 .71570 .81570 .89920 .99620 .99620	1,89550 1,00690 1,00690 1,61470 1,51990 1,34170 1,23700 1,17690 1,17690 1,17690 1,17690 1,17690 1,17690 1,17690

TABULATEE SOURCE DATA - MSFC TAT 574 DATE 20 SCP 73

HSFC 574 (OA46) ORB 1398 W/ALT NOSE

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(R67032) (16 JUL 73)

PARAMETRIC DATA

PACE 51

96 96 96

REFERENCE DATA

.000 ELEVTR = .000 BDFLAP = 999.990 BETA = ATLACH = SPEBRK = 636.7000 IN. .0000 IN. 2000.0000 96.FT. 474.8000 1N. 836.7000 1N.

RUN ND. 110/ 0 RN/L = 4,94 GRADIENT INTERVAL = -5,00/ 5,00

ğ	454		ą	Շ	Š	ð	5	S	ರ	8	ŝ
	9		01140	00600	-,00200	00190	07690.	06.00	02497	.25420	1.91650
	25.25		-,01530	50940	06200	0,000	06070.	.00450	.54200	.29630	1.41650
	0.4.42	02500	21560	0.000	00310	06000"-	.07100	.00460	.60490	.33000	1.72430
	080.44		01830	00600'-	0220	00100-	.07140	.00460	.67100	.41180	1.62920
	28.380		02250	07010	00210	00110	.07160	00470	. 73240	.47750	1.53360
	077		09620-	-,01250	-,00190	00120	.07130	.00490	00967.	.35060	1.44560
1			03540	01430	-,00120	-,00160	ממנס.	.00490	.85790	.63060	1.36030
	7		04040	-,00670	-,00120	00160	.07140	.00460	.91590	.71690	1.27390
9	2		06890-	01600	-,00000	08100	.07140	.00490	09496.	.80900	1.19600
	S.		05600	01590	-,00140	00160	09040.	.00480	1.01300	.90240	1.12250
3	60.660		-,7.6520	01640	00160	00130	.07040	.00450	1.05480	.99630	1.03650
	30.430		0284D	01400	00230	-,00000	07170.	02470	.80040	. 55360	1.44510
	1010100		- most	00039	70000	-,00002	10000	10000	.02649	.03671	04232

	;		AND AND AND CF DATA - MSFC TAT 574	DATA - MS	7C TAT 574					PAGE	25
DATE 20 BEP 75	¢ s					3808 1			(Re1033)	1) (16 JUL 75	. 23
				574 (OA46)	MSFC 574 (OM46) UND 1336 M ML:	}				,	
	STATE DATA	DATA						_	PARANETRIC DATA	DATA	
							•	# YP6 1	000	ELEVTR #	000.
	E850,0000 SA.FT.		* 636.7000 IN.	. N.				7	000	BOFLAP =	000.
205	474,8000 1W.	T A	* *	.0000 IN.				SPOORK =	066.666		
SCALE :	0900										
		CM NO.	0. 127/ 0	יי אאר	9.02 CRAD	CRADIEM INTERVAL =	/VF = -3'00'	3.00			
				į	į	ŧ	3	8	ರ	8	S
MON	BETA	5	3	ל	CT - CT -		.04740	03010	03470	.04010	-1.13740
8	-10.450	05530	Operation.	18650	01540	00490	06670	0550.	06390	0.050.0	-1.25660
8	2.4	0.00	03300	11060	-,01150	06800	00250	06920	06710	06250	- 47240
8	6.1	30.00	00000	07070	00690	.02230	.03410	.02870	07560	00000	1.48390
			02130	06180	00560	.00100	.05460	05920	0.390	CK Service	-1.57660
ē i	3.5	0000	04490	00560	09000	01100	.05460	.02710	26/80	05510	-1,55590
		00000	.04330	C9270'-	00400	00000	.05400	0000	Carac -	05340	-1,60630
		06690	.04110	06450	.00630	00030	05250	CBBZO.	02220	05240	-1.46270
		07840	00000	12640	.01339	00200	.05140	nenen.		04980	~1.48090
		07440	00650	-,16560	.01830	00270	.04880	06060	07.50	04880	-1,46400
		07210	03180	20210	06020*	-,00230	04130	00000	05310.1	00980	-1,47210
Ş E		06310	06770	-,00680	00000	00000	.05497	00200	4.00	00019	-,02642
	SEADIENT	00114	93000	-,01869	96100.	00032	-,00021	4300	******		
		CK MA	0,921	1	6.24 GRA	DIENT INTER	GRADIENT INTERVAL = -5.00/	3.00			
								,	•	•	9/1
		č	3	Շ	Š	ಕ	ฮ	9	4		-1.35460
			.04290	C1370	02540	00270	.06367	03350	0000		-1.43860
Ŗ		01880	04870	.17760	02280	02700	06090	03040	08.00	02.190	-1.64460
į	7	-,10240	.05550	.13450	-,01760	.00440	06090	. 068/0	- 10640	D6240	-1.73710
į	27.7	10930	CACCAC.	.08540	01070	.00340	(SC)	C#190.	02211	06390	-1,75390
	25.34	11300	.06490	.03660	00449	0.270	2000	05960	0.11670		-1,63660
	-,330	11960	06990.	-, 00600	.00120	09100	00000	05250	-,11040		-1.66170
	1.780	-,11930	06590	05020	000660	.6000	00000	2000	0.11600	.06220	-1.86630
	3.600	11000	.06190	09960"-	.01390	06000	06.90	1996	11470		-1.61160
•	5.670	11560	.05600	19070	.02180	-,00160	0/100	61680	-, 11090		-1.74850
1	7.910	-,11160	Caceo.	18950	.02550	00070	Caren	COST	. 11560		-1.75160
	20.0	11690	.04400	23240	UZ970.	.00100	.06430	.3960.	CECCE -		-1.88520
		12120	06630	-,00790	.00140	.00140	.66210	1,6920.	40400	•	-,01673
	DESTONATION	-,0104	91000.	02220	.00292	00050	- 5000	TX KKIN	1011111		

MT 574	
HBFC 3	
TABULATED SOURCE DATA - MSFC THE STA	
D SOURCE	
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DATE 20 SEP 73	
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			HEFC	574 (OA48)	MSFC 574 (OA48) ORB 1398 W/ALT NOSE	VALT NOSE			(Re7033)	13) (10 JUL 73	. 5
	REPEREN	DKE DATA							PARAMETRIC DATA	: DATA	
200 COE	244.8000 84 474.8000 IN 836.7000 IN	18. FT. XMEP IN. THOSP IN. ZIMEP	# # H	636,7000 IN. ,0000 IN.				ALPHA =	000.	ELEVTR = BOFLAP =	000.
		RUN NO.	6. 129/ 0	1 NA 1	3.	GRADIENT INTERVAL =	RVAL = -5.00/	00' 8'00			
ğ	BETA	8	9	Շ	Ē	형	5	3	ď	8	\$
1.23.1	-10.620	04760	.04910	2060	02450	.01420	.15970	.06200	04560	.16030	28470
1.501	7.50	21060	.05240	.16730	02070	02210	.16130	.06120	04810	.16200	29090
1.8	-6.540	09690'-	.05490	.12190	01490	00000	.16140	.05750	04760	.16200	29380
E.	7.490	-,09040	.05740	.07740	00000	.00690	10290	.05470	04630	.16340	29600
1.20	-2.400	05120	00000	00200	00250	.00360	.16370	.05310	-,04920	.16430	255930
1.201	320	05480	.06160	01140	.00260	.00130	.16490	.05500	05280	.16560	318TO
1.20	1.740	05830	.06140	05590	.00030	00130	.16490	.05820	05630	.16560	33890
1.201	3.640	-,06340	.06190	10260	.01510	00460	.16730	.05650	06130	.16910	36460
1.201	5.910	~.Desa0	.06030	14920	.02210	00760	.166DC	.03760	06670	.16680	399en
1.20	7.960	07460	09860	19350	.02760	-,00990	.16630	.05960	07240	.16730	43320
1.201	0.940	06270	05650.	23400	.03120	01120	.16530	.06250	08050	.16640	46360
1.201	350	05430	OK 190.	01390	.00300	.00100	57791.	.05500	05230	.16540	31640
	GRADIBAT	00199	.00090	02153	.00200	00132	.00049	.00032	00159	.00031	00655
		ALN NO.	0. 170/ 0	BYL =	7.02 GEA	CRADIENT INTERVAL =	VAL = -5.00/	0/ 5.00			
Į.	BETA	8	3	5	Š	ŧ	ð	3	d	ε	5
1.94	~10,370	.00390	.00270	.20630	01430	00000	13570	.03550	03500	.13560	03660
1.8	0.370	.00220	coeco.	.16220	01090	.00610	.13600	.03460	06500.	.13600	.02670
3:	4.1	.02250	or110.	.11870	00770	01900	.13960	.03350	.00420	.13960	03060
1.94	7.500	00000	00510	.07670	00470	.00440	.14050	.03300	.00160	.14050	01110.
1.34	-2.110	00130	.01690	.02740	00190	orano.	.14130	.03230	.00020	.14140	cozoo.
 2	9	05460	.01790	00200	.00150	02000	.13789	.03160	00320	.13760	02340
1.9	2.090 2.090	00590	01770	04290	.02440	00100	.13920	.03160	00380	.13930	02780
 3	4.180	00780	027.10.	06340	.00720	-,00260	.14060	.03210	00610	.14070	04350
 5	6.300	01030	.01390	12965	.01030	-,00450	.14510	.03320	-,00660	.14020	06190
1.5	9.400	01150	.01190	17340	.01380	~.00650	.13790	.03500	-,00980	.13610	07150
	10,390	01430	.00750	22070	.01690	00000	.13760	.03570	01260	.13790	09150
	000	00450	.01760	00640	.00160	.00050	.13710	.03160	00290	01751.	02110
	GRADIENT	DO:095	.00029	01915	.00142	00085	€00000°=	00011	00093	•00000	00671

TABULATED BOUNCE DATA - MSFC TAIT 574 DATE 20 SEP 73

PAGE 54

HSFC 574 (OA48) ORB 1398

(18 JUL 73	
(Revoss)	PARAMETRIC DATA
96 WALT NOSE	

		E DATA							ь	PARAMETRIC DATA			
									•	. 8		000	
	7.00 0000.0003		*	.NI COOT. 868	H.				ALTEN "	8 6		900	
200	474.8000 1W. \$36.7000 1W.			.000 .NI 0000	žž			. •	SPOSKK =	999.990			
		2	RUN NO. 131/ 0	0	RV. *	4.03 GRAD	GRADIENT INTERVAL = -5.00/	L = -5.00	9.00				
					ı		į	5	3	ರ	8	5	
M	ETA	5	ð		5	S S S S S S S S S S S S S S S S S S S			01620	03260	,10790	30530	
2.980	-10.470	05460	•	2	16030	2.00		5	01810	03360	01901.	31510	
2.990	25.4	03500	•	2	277			0.501	00110	03420	.10990	32340	
2.980	4.46	03980	•	Q :	20130			10400	00710.	03720	.10530	39390	
2.90D	-4.440	-,08630	•	R:	SOUTO:			10510	.01690	06660	.10570	-,37790	
2.90 0	e.370	-,04130	•	_	2			10480	01870	04010	.10540	36110	
080'8	900	06130		•	- DCDC	200.		10950	03710	04260	.10500	40240	
2.100	1.700	04390	-	•	04240			0.0504	.01740	04390	.10500	41520	
2.90	3.780	04530		•	0000	ceon.		00901	00010	04540	.10690	42490	
2.980	9.810	0.0	•	8	0.611	9		10660	.01610	04860	.10720	-,45530	
2.980	7.630	09000	•	8	15340	04140		920	01830	05210	.10000	46270	
2.100	9.730	05350	•	2	1996	מאשנה.			0160	04250	.10520	40420	
2.980	-,830	04390		8	-,00460	06.00	non.			00079	\$0000	-,00723	
	MADIDA	0007	. 0003	3	01629	.00143	2,000						
		•	RUN ND. 130/ 0	9	# 7×	5.00 GRA	GRADIENT INTERVAL = -5,007	ML = -5.00	3.00				
					į	Į	ē	5	3	4	8	\$	
Ž	V T	3			5		3		00460	0.04720	07060.	52110	
4.999	-10.960	04600	•	8	14650		91600		07400	04480	01690.	90310	
4.48	4.460	04990	•	8 1	200	0000		06890	00760	04340	.00700	49670	
\$6.7	7.400	-,04490		R		2000	07000	04420	00450	04530	.08480	53440	
4.93	4.400	- 0440	•	8 1	02860	OF STORY	Option.	.08140	.00460	04290	06190	51860	
4.39	4.34D	06090		8 9		02.00	oue.	06090	.00460	04170	00190	51 520	
4.93	330	04290	•	8 9	-, COR. 7	05100	-,00030	06130	.00460	04360	09190	53360	
4.999	1.	04470	•	2 1	06360.		00160	06370	.00470	05040	.06440	59660	
4.95	3.740	03140	•	8 (20700	00000	07500	09290	.00460	05210	.06630	60390	
4.99	5.740	05320	•	P :	- 100 C	00000	03800	09860	.00490	05590	.08740	63980	
4.95	7,130	05700	•		0.621	coon.		02690	00500	196240	01060.	69330	
4.959	9.670	06360	•	§ :	15650	Oceano.	Sec. 3	06620	00490	04260	00610.	55340	
4.93	330	D4360	•	S	00270	90000	- 00045	00003	20000	-,00056	- ,00004	-, നേക്കേ	
	GRADIEM	00055	55 .00012	315	01516	. U.K.P.							

DATE 28 957 73	£ 73	TABU	TABULATED SOURCE DATA - MBPC TAT 574	E BATA - M	WC Tut 574					PACE	33
			15.	574 (OA46)	MSFC 574 (OA46) ORB 1398 WALT NOSE	ALT NOSE			(R87034)	4) (18 JUL	ر د د
	*CPENEDIC	CE BATA							PARAMETRIC DATA	: DATA	
1				ese, your 18.				ALPRA	10.000	ELEVTR =	900
9	, =	•	}	.0000 IN.				ATUNOR =	000	BOPLAP *	000
SCALE :	934, 7000 1N.			.0000 1м.				SPEEKK =	***		
		-CH MON	NO. 120/ 0	* 7/8	4.96 GRA	GRADIENT INTERVAL = -5.00/	VAL = -5.0	0. 5.00			
į	i	8	3	5	Ē	ŧ	5	3	ರ	8	\$
	15 AT	5	5	1750	0.010	ozeao.	04410	03420	.46700	.10130	4.59610
			077.0	14480	01490	00000	06030	.03360	.46490	.10100	4.56200
		46340	06180	10430	01070	.01590	06130	.03120	.45290	10090	4.50300
i,		49960	06530	02000	00570	.01050	00130	.03130	.44940	09660.	4.51020
		45650	06730	.02660	00190	00000	09330	.09060	.44780	.10090	4.43920
,		49280	.02830	01090	01100	0.300.	.02210	• 056-30	.44230	.09940	4,44790
		45670	06620	-,04900	06400	0017J	Rizo.	09060	.44620	5.0975 57.00	4.47200
		45410	0.570	06660	01800.	00590	02120	09060*	.44390		4.50220
		C8287	.02420	12860	.01420	01060	0.000	.03200	.44330		4.51430
		.49570	00120	17060	02610*	01490	06030	.03410	.44590		4.53990
		.45370	05610.	20260	06020	01780	01030	.03590	.44330	.08750	4.54600
		.45990	.02910	01250	06000	00200	57.130.	.08690	.44540	09660*	4.47010
	3	00065	.000	01846	.00175	-,00200	00004	*.0000	-,00063	-,00017	98000.
		R. F.	NO. 121/ 0	BVL =	6.26 GRA	GRADIENT INTERVAL = -5.00/	VAL = -5.0	9.30			
(i	;	8	8	ŧ	đ	3	đ	8	S
		5	3			2	07980	08780	49490	15660	3.15600
		00000	06-200-	16730	61470	0610	06490	.03400	.48490	.15310	3.16310
			06200	12360	01100	.01090	.06590	.03330	.40010	.15300	3.13660
		9	07500	0.07090	00600	.00730	04990	.03240	.47300		3.10420
		48310	06. 08.	.03310	00120	06500*	00000	.03320	.47320	.15440	3.06320
-		.48940	06010	00630	07100.	00000	.06720	.03320	CT 691.		5.06970
006		.46620	00010	09010	.00540	-, 00330	.06780	.03250	.46650		3.04860
3		.49080	05700	G6560.~	01010.	~.00740	06890*	.03370	47090	.15460	3.04560
006		.49140	06900	14200	.01549	01110	.06760	.03480	.47160	.15370	3.06710
8		.48970	.00000	18610	.01860	01330	.06780	.03750	.47000	.15350	3.06020
8		.49120	06000	-,22600	.01690	01430	.06810	.04150	.47140	.15410	3.05860
00		02167	.01040	00950	.00100	00000	. 0681 0	.03300	.47130	.15420	3.05540
	3	000ro	.00061	02091	.00193	00175	.pone	60000	00072	60000	00637

PAGE S6

DATE 28 9	8 t	TABLE	TABLEATED SOURCE DATA - HSPC THE 574	DATA - HS	PC TAT 574						
			NO.	574 (OA48)	HEFC 574 (OA48) ORB 1398 W/ALT HOSE	LT NOSE			(Re7034)	4 (16 JQ 73	e C
	ATAC TANGET	728						-	PARAVETRIC DATA	DATA	
								# VOIE 17	10.900	ELEVIR =	900.
	.FT.48 0000.0008		F. 620. F	ESE, TUDO IN.				ATURON :	900	BOPLAP =	000*
31	474.4000 1M.		 E 6	.000 IK.				SPORTK =	999.990	•	
NCALE .	0,000										
	•		. 122/ O	# 7/8H	6.67 GRAD	GRADIEST INTERVAL =	/AL = -5.00/	5.00			
				i	į	ŧ	ð	3	đ	8	\$
į	4	5	3	5	CT IN	200	28440	00990	5.55	00383	2.16390
3.00	-10.01-	08408	0.000	opers.	2000	08340	19700	.06330	.96990	.26340	2.14310
2001	9	00.00	00350.		08/00	0000	.15770	.06470	.57100	.26690	2.14220
1.800				0630	-,00030	0.000.	03061	57 KBQ.	. 56880	00002	F.13530
2				079	0.000	09300	.19880	00960	.56740	26400	2.14860
	- Y			- 03 700	00000	02000	.15510	.05740	. 36900	09692	2.13630
			06000	09900	06900*	00370	.15000	00000	2695	0.507	2.14530
	1.700			06080*-	0000	07200-	.15710	0220	. 56620	01092	0.0000
9			-04720	13130	.01390	0.110	.19860	.06610	.56130	04992	* 10330
			0440	17110	.01750	01920	.19940	01190	00000	06693	02740.4
	} {		-,04870	20900	06020	01870	.15690	00000	200		Delik T
			0000	-,01730	06000.	-,00010	.15330	00000	36780	20193	
	PERMIT		-0000	01071	27.100.	00167	0000	51000	000	imi-	
	-	-	AND 100 100/ 0	# 1 %	7.01 GRA	GRADIEM INTERVAL # -5.00/	VAL = -5.0	9. s. oo			
					į	Į	(3	đ	8	5
	AT.	5	ð	Շ	Ë	4	;	35	42240	2002	2,10310
1.964	-10.40	.49160	0587D	.18860	0,000	0.000	DE 131.	07750	41520		2.05350
100.5	-F.360	.44670	05130	2	or los.	on In		0.550	41520		2.04710
1.0	-6.300	.44480	00000	06590	0000		12540	06360	.41400	.20300	2.03900
	7.20	20077		OCTAN .		Charle	12290	03060	.41000		2.03190
1,96	4	C3667	0.00		- CE	00000	12340	03120	.40610		2.04160
1.1		43730		0.000	0.20	-,00240	.12450	.03270	.40670		2.02600
1.96.1		43680			0.40	06900"-	.12550	.03500	.40020		1.99610
1.867		2	-,02730	96.0	02200	-,00770	.12670	.03640	.40420		1.99620
1.9	6.200	43400	00020		00100	-,01010	.12670	03800	.40520		1.99670
1.96		43300	57.20°-	000000	06100	01300	.12460	08980	.41150		2.03900
1.96	2	44100	Original Property of	00000	09100	00040	.11900	03120	.39160		2.03960
7.	8.	2000	00000	03606	\$ 1000	-,00125	60000	.00042	00146	00020	00534
	SECONDARY.										

DATE 28 SCP	Ş	TABLE	tabulated source data – Hefc tuit 574	E 6414 - MS	FC TMF 574					PAGE	F.
			HSPC	574 (OA48)	HSPC 574 (CA48) CRB 1398 WALT HOSE	ALT HOSE			(Re7034)	H) (16 JUL	د د ۲
	ACYDICA	REDICE DATA		•					PARAMETRIC DATA	: DATA	
				MI COCK OFF				. ****	10.000	ELEVIR :	900
	24 0000 Ja	1		.0000 3N.				ATURON =	8	BOTA :	000
				.N1 0000				SPUBBIK :	999.940		
SCALE :	geda.										
		PLIN I	RUN 10. 132/ 0	7	4.05 GRA	GRADIENT INTERVAL =	VAL = -5.00/	8.8			
		3	ž	5	Ē	뤙	5	3	ರ	8	\$
	10.45		01360	14860	0.000	02210	01000	04610.	.25260	13780	1.03400
	930	2007	01060	11930	00330	.01020	08360*	00010.	25040	.13710	1.0271
2.940	-6.430	01963.	00620	.06590	00160	.00190	00080*	01960	.24690	.13660	200
2.90	4.410	.26290	00470	.05210	00000	02700	.08030	.01830	.24340	13640	1.7845
2.980	4.370	.28140	00310	06830.	02000	.00240	.09600	01760	.24210	13400	1.735
2.980	330	.23950	00380	01100	08000	-,00000	08060*	.01750	. 24040	13330	1.0041
8.80	1.700	0 3863 *	-,00020	03730	.00120	-,00280	00260	57.19	. 2300	13480	78087
2.980	3.760	.25840	00480	08720	OBTOD.	00510	06360	06810.	C0074	13540	X21.
2.980	9.800	01082	-,00660	10130	07500.	00610	08280	creto.	24070	133851	1. 78(E)
E.980	7.950	20193	06600*-	13440	500.0	01040	.09£70	0000	.24160	13340	1.78421
2,990	9.760	00283	01270	16510	.0044D	01210'-	03760	06610	.24260	orei.	1.00
2.900	- 330	.29840	00840	00710	06000	-,00040	0.000	.0170	.24040	13350	1.0047
	MADIENT	06000"-	000	Di 467	.000	-,00122	0000	,0000°	-,0004	00013	001
-		35	RM ND. 133/ 0	8 47. =	4.94	DION INTER	GRADIENT INTERVAL = -5,00/	2.30		-	
			;		į	{	3	3	c	8	9
ğ		6	ð	ָ		4	5	}	7.20	10560	1.6321
	-10-340	.18730	00740	01121.	01100	0.000	07420	00700	17210	10420	1.6516
					00110	00700	.07330	00490	.17220	.10340	1.6660
			02200	0.520	-,00030	00400	06220.	06700	.17210	.10250	1.6793
	9	10000	06300"-	05050	01000	.00220	02170.	06700	.17210	.10120	1.6909
1	96.	.10010	00100	-,00330	00000	00020	.07060	07,00	.17180	.10050	1.7090
	1.80	.10020	01050	06620'-	0.000	00210	07070.	.00400	.17160	10060	1.7071
4.93	3.720	.18170	00320	05700	02100	00470	.07090	.00490	.16740	06660	1.6748
	5.740	.16300	00450	06190	.00150	90670	.07230	00200	.16650	.10160	1.6570
4.838	7.740	.16310	00290	-,10600	.00139	-,00660	.07250	.00510	.16850	.10190	1.6528
4.930	9.660	.17950	00320	1 29 70	06000*	01010	.07400	.00550	.16470	.10200	1.6023
4.438	340	.16490	00270	-,50260	00010	00010	.07030	GG\$00°	.17060	.10000	1.7049
))	GRADIENT	00092	00000	01265	.00016	00115	02000*-	GOOGG"-	00048	62000-	000

1.03400 1.02400 1.70430 1.70430 1.70420 1.70420 1.70420 1.70420 1.70420 1.70420

1,63210 1,65160 1,66600 1,67930 1,77400 1,77400 1,67200 1,67200 1,67200 1,67200 1,67200 1,67200 1,67200

e	5 5	44	KLATED SOUR	CE ONTA -	TABULATED BOUNCE DATA - HOPE TAIT STA					PACE	0
			Ì	C 574 (0846	HEFT 574 (OA46) ORB 1398 WALT NORE	ALT NOSE			(Re7035)	5) (16 JUL	2 ~
	OLGAN COM	DECE DATA							PARAMETRIC DATA	DATA	
	\$ 0000°008	6.7. Xee	3	536.7000 1M.				A CPICA	20.000	B.EVIR .	8 8
3	474,4000 TH.	7 TO T	• •	.0000 IN.				ATC404 = 8-08-14			3
-	0000										
		2	RIN NO. 1957 S	. W	4.8 68.4	GRADIEST INTERNAL =	M. = -5.00/	8.80			
	i	ð	3	ð	ŧ	ŧ	5	3	đ	8	ያ
	•	1.18840	02/20	.178eD	_	.00230	08710.	57770	1.04950	.41960	2.90720
8		1.13610	06850	.13990	•	.08380	01030	.04350	1.05450	.42340	2.49000
Ş		1.13900	02120	01760.	-	Office.	. 0 0 .090	0000	1.05660	42530	2.48470
S.		1.14780	0400	0000	•	.00010	01610.	06330	1.06500	75.00	2.49400
ě,		1.13090	01300	OBTOO.	_	01000	06130	00670	1.04630	01227	2.46030
į		1.13040	-,01046	D4290	_	00170	0e0a0*	01970	1.05750	42540	Z.485Z0
		1.11570	-,00800	-,04640	.01100	00900	03010	.04490	1.03610	02787	2.50140
Ş		1.1084D	00860	-,12910	01910	-,00000	087.20.	0650	1.06490	40910	2.30490
8		1.10990	01340	16640		01210	00610	.0400	1.05640	41110	2.49650
		2.50470	-,01610	20000	0.000.	-,01700	.01730	01000	1.05630	. 408E0	2.50730
8		1.12480	OSEGO"-	2357D		-,02090	07470	.04830	1.03600	.41190	2.51490
8		1.13000	Capto'-	03430		-,000	.01960	.04510	1.04860	.45090	2.49120
	ł	0000	, 001 62	-,02185		0014	0003	.000	CO462	00215	.00163
. 1			0 781	0 BK =	6.25	CRADIENT INTERVAL =	M. = -5.00/	9.00			
										;	•
20	V T	ð	ð	Շ		đ	ð	3	d	B	3
ŧ	•	1.08140	0.000	13881		0000	00690	ocreo.	ON INC.	07107	2.148EU
į		1.10040	00000	. 10			00000			47480	2.11430
3		1.10000	200			06600	0620	05830	1.00360	.47790	2.10030
			Catal	0.900		-,00000	07660	08880.	1.00100	.47776	2,09910
		1,1080	00010	00630	_	00490	06170.	06030	.99760	.47760	2.06670
•		1.10400	-,00000	03440	•	00060	08770.	09650.	.99630	47770	2,06970
		1.10290	06900"-	09660		01390	07670.	.06100	.99760	.47640	2.09360
Į		1.09360	00276	13240	00390	01000	01660.	.05510	.99190	.46390	2.12940
-		1.08140	01800	16330	02600*-	02410	.06320	.05430	.96280	.45500	2.19700
į	•	1.07860	.00540	1952	01610	03060	06290.	.05620	9e200	.45550	2.15150
8	•	1.11190	00630	0.02570	00200	00370	07870	05650.	1.00510	.48200	2.06520
	8	00072	.00019	01647	00103	-,00200	.00013	.00032	00072	00014	-,0006

PAGE 50	(R67035) (10 JUL 73)
TABLEATED SOURCE DATA - MSFC TMT 574	MSFC 574 (QA48) ORB 1396 W/ALT NOSE
	DAIL CO SET TO

	000.	
DATA	BOTAP :	
PARAMETRIC DATA	20,000 E0.000 B0	
	ALPHA = AILRON = SPDBRK =	-5.00/ 5.00
		INTERVAL =
		GRADIEM
		6.67
	1M. YINE S ODDS 1M. 1M. YINE S ODDS 1M. 1M. ZHUE S ODDS 1M.	MAN NO. 123/ O RIVIL = 6.67 GRADIEM INTERVAL = -5.00/ 5.00
	 555	M 70. 12
ATA	ā ī ā	3
REPERENCE DATA	11.00 000.000 st.ft.	

1.02270 1.03960 1.03960 1.03470 1.0140 1.02370 1.03270 1.03270 1.03270
59510 59778 59779 59779 59990 59990 59990 59990 57780 59990 57780 59990 57780 59990 57780 59990 57780 59990 57780 59990 57780
0. 1.09970 1.06320 1.07040 1.07020 1.07130 1.07130 1.07090 1.06630 1.04840 1.03610 1.06620
CAB08890 .08860 .09860 .07180 .07180 .07510 .07510 .07240 .07270 .07270
CA13600 .13710 .13950 .14390 .14490 .14490 .1480 .1370 .13770 .14490
02. 01520 01520 01520 00430 00130 -00530 -00530 -01240 -01530 -01530
. 14070 . 14070 . 10410 . 10410 . 10410 . 10410 . 10410 . 10770 . 10770
1.1900 1.2000 1.21150 1.21150 1.21250 1.21250 1.21250 1.17300 1.17300
10.100
200 1 1 200 1 200 1 1 200 1 200 1 1 200 1 200 1 1 200 1

	1.06000 1.06000 1.06000 1.06400 1.08750 1.08500 1.06720 1.067700 1.06440
	43240 43240 43240 43240 43240 43250 43240 43250 43250 43260
	0. 01340 00700 011340 01130 01130 01130 01210 00240 01210 01210 01210 01210 01210 01210 01210 01210 01210
2.00	CAB .03620 .03720 .03720 .03660 .03660 .03680 .03680 .03680 .03680
N = -5.00	CA .10330 .10230 .10230 .10230 .10970 .10980 .10980 .10980 .10230 .10230 .10070 .10070 .10070 .10070 .10070 .10070 .10070 .10070
CRADIENT INTERVAL = -5.00/	.01740 .01740 .01250 .00250 .00000 .00000 00100 01990 01990 01990
7.04 GRAE	CYN , 01800 , 01600 , 01300 , 01300 , 00040 , 00040 , 00040 , 01510 , 01510 , 01510 , 01510 , 01510 , 01510 , 01510 , 01510 , 01510
# 7/A	.14670 .10570 .10570 .00530 .00530 .00530 0550 06070 15770 15770
. 171/ 0	0.0500. 0.0500. 0.0510. 0.0510. 0.0510. 0.0510. 0.0510. 0.0510. 0.0510. 0.0510. 0.0510. 0.0510. 0.0510. 0.0510. 0.0510.
REN NO.	94.00 .9140 .9140 .9140 .9140 .9140 .9140 .9140 .9140 .9140 .9140 .9140 .9140 .9140 .99760 .9
	-10.470 -0.440 -4.350 -4.240 -2.130 -2.130 -2.130 -2.130 -3.140 -3.40 -3
	68:11 108

	5		TABLE	ATED BOURCE	: DATA - H	TABULATED BOUNCE DATA - MSFC TMT 574					PAGE	8
	!			M	574 (OA48)	MSFC 574 (0A48) ORB 1398 12/ALT NOSE	ALT HOSE			(Re7035)	5) (16 JU.	- E
									_	PARAMETRIC	DATA	
	ACTEUDICE		DATA									
		ļ			76 0000				ALPHA :	20.000		900
•	0000,0000	i E			. M. 0000				AILRON =	000	BOPLAP :	96.
	#14.7000 IM.	Ė	À	. 2	.0000 IN.				SPOORS *			
*	908											
			S S	0. 1397 0	#7. #	4.8	CRADIENT INTERVAL =	/NL = -5.00/	5.8 2.8			
						į	į	8	3	đ	8	S
Ö	Y L	0	#	3	Շ	_		5	2	.57120	.30420	1.87740
2,080	-10.460	_	09199	-, OB480	12040		01100		01610	57040		1.66240
9.8	T.	_	909	06230	03.50			Organ.	01940	STOIO.	30230	1.6644D
2.000	4.460	_	00049	0000	0.20			0000	00610	.56720	30140	1.66130
6.950	-4.410			00000	0000	oeen.		06390	.01840	.56540	20060	1,66050
2,000	4.350			00000		_	00000	02250	.01780	.56460	.29940	1.68530
0	000		£ 66,	07870	DEOID.		0900	.06230	.01790	. 56400		1.66700
2.980	1.700			-,01770	DE160		0.000	06190	.01780	.56520	C796.2	1.89400
C. 640	3.780		0	09G35'-	2000		0000	00100	.01617	.56370	. 2973 0	1.89600
2,40	0,00	_	9	02120	nenen'-		0.0	07,190.	06910.	36300		1.69030
2.60	1.0			0.20	Pari-		010	06290	.01860	. 56300	01663.	1.64220
086°#			9250		00000		-,00100	01290	.01780	.56500	00663	1.66930
0	- 150	_		087.80	02100		00164	000	00016	-,00026	00036	.00156
		_										
			¥	MEN NO. 134/ 0	2 #WL 8	1.8	GRADIENT INTERVAL =	WAL = -5.00/	00/ 2.63			
				;	i	•	8	ð	3	ರ	8	5
Q	7		*	5	5			07570.	06700	.46500	_	1.86610
4.90	-10,360	_		- 01130				.07210	00600	.46660	_	1.89040
4.93	7.430				OKESO.		01600	.07100	00600*	.46670		06189.1
				01800	.003300		.00500	. r9960	.00500	.46740		OCTUGE:
			9	00730	.01020			.06960	00200		010420	1.91540
			06089	01070	00670	06000*- 0		.06890	.00480			92910
			02525	07700-	02750		•	.06750	07470	.46960		90480
			51610	00000	04680	0.100470	•	.06630	0.004.70	.400.0		
	92.		0993	00020	06080	00900"- 0	•	.06800	.00480	. 404.30		CALCO .
			9	07600	09190	00900 0	01350	.06660	06470			
	: (0.000	-,11349	(16600) - 0	01680	05070	.00500			. 0.010
7.00			9	05200	00650		00120	.06850	.00485			201010
4.93	Dec		2000	10000	57600		00165	-,00023	00004	00045	(16040)	
٠	SEADIENT	•	a Lander		· ·							

	(R67056) (PARAMETRIC DATA
TABULATED SCURCE DATA - MSFC TUT 574	MSFC 574 (CA48) CRB 139B W/ALT NOSE	ATA TOUR
DATE 20 8EP 73		

	REPERENCE UNIT										
55	2000.0000 98. 474.0000 1N.			.000 IN. .000 IN. .NI 0000.				ALPHA = AILRON = SPUBRK =	066*666 066*666	ELEVTR = BOFLAP =	86. 80.
SCALE :	.0040							;			
	-	RUN NO.	NO. 126/ D	RIV.	4.96 GRA	GRADIENT INTERVAL =	/N = -5.00/	20.6			
		:	;	{	3	ŧ	٠ 5	3	ರ	8	S
Ö	BETA	5	5			01730	03130	.07560	1.00370	.64000	1.56620
ă	•	1.19000	usagn.	06631.	66.00	01240	.03440	.07360	09886.	.63430	1.55850
8.		1.17400	09060	0.000		00.630	.03790	.07430	.98550	.63640	1.54850
ā		1.17200	0.000		06900	06100	.04340	.07610	.97600	.63690	1.53230
ğ		1.194		06200	06766	-,00050	.04500	07870.	06996*	.63320	1.52700
		1.12		02060	06200	00300	.04490	0.00070	.96580	.63290	20126.1
		1.13390	66.65	06370	06000	-,00610	.04270	.08030	.96510	.62950	1.53290
8		Delet.	Control	19747	06000*-	00940	.03670	.07850	.97400	.62900	1.33090
30.		1.1564	California (19740	00540	01350	.03150	.07619	.98240	.62710	1.56650
90		1.16900	09/80	2007	0.00	-,01900	.02710	.07690	.96620	.62430	1.57950
300		1.16690	cisen.	C#0#1*-	0,10	0.500	02570	.07570.	.98610	.62250	1,58390
200	,	1.16590	06960	-17600	03000	00200	04610	.06130	.96690	.63450	1.52300
20.		1.15560	10260	over the second		95,000	-,00077	.00031	-,00028	00105	.00211
	GRADIENT	00077	50000	01670	36070-						
,			ND. 136/ 0	RNT.	4.05 GRA	CRADIENT INTERVAL = -5.00/	/AL = -5.00	2.00			
								1	į	(
į		ð	3	Շ	ر ک	턴	ರ	3	1		40480
			07080	.09460	.01620	.02120	.06390	00020.	.87620	01620.	
A .3		0.7470	-,05045	07890.	.01420	.01590	.08250	02020	. 87890	06520.	
		1.07410	06690	.04330	.01210	.01080	06640.	01970	. 87960	00000	42140
		1.07470	0.04930	.02020	00600*	00900	.07800	01910.	00100		42470
2.00		07570	-,05030	.00050	.00430	21200	.07689	.01900	.88239	34619.	42490
2.990		0.220	C6840	01460	-,00219	00010	.07670	.01890	. 88240	02619.	12467
26.2		0.670	07650	03480	-,00660	00430	.0765	.01900	.68240	06919	49440
2.0		0.000	04780	05610	01030	00910	06940*	.01930	.87620	39619	2007
2			04730	-,00000	-,01320	-,01410	.07800	07610.	.87755	.61740	
2.430			04680	-,10610	-,01500	01970	.07880	.01960	.87130	.61480	1.41.10
2 6. 9		1,06590	0.000	13390	-,01600	02550	.07920	.01900	.86720	.61270	1.41550
2.950	0.040 0.040 0.040	79000-	81000	02606*-	00242	00179	00012	20000	-,00050	-,00046	, traines

DATE 26 SEP 75 TABLEATED SOURCE DATA - MSFC TMF 574

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MSFC 574 (OA43) ORB 1398 WALT NOSE

(R67036) (16 JU. 73)

PARAMETRIC DATA

PACE 62

	REPERE	DICE DATA										PARAMETRIC DATA	K	
E CONTRACTOR OF THE CONTRACTOR	2000.000 474.000 1 004.000		4 4 8 4 4 8 4 4 8		636. 7000 6000.	9 9 9 IN:				777	ALPHA = AILRON = SPEBRK =	000°05 000° 066°666	ELEVTR = BDFLAF =	000.
			E N		157/ 0	" אמן	= 4.92		CRADIENT INTERVAL =	VAL = -5.00/	66.6			
		į		1		į		3	ŧ	5	3	ರ	8	\$
Ď				ē	. !	ָ ֭֭֓֞֞֞֞֞֞֞֞֞			04860	.07610	09700	.778ZD	.54550	1.42660
4,93	•		8	83180	8	ero.		2000		07490	09700	.76160	.54610	1,43120
4.83			9	8	5	.0578		Creation of		0.220	09700	.78450	.54560	1.43800
4.93			0	g	200	966		Ceeco.	2000	5120	00450	.78310	.54350	1.44070
4.99			8	8.	8	6020		0770	ocean.		05960	07787.	. 54460	1.44620
4.93			8	8	S	5100		0000	66.00	CE CO	2200	.78600	.54510	1.44560
4.938			930	8	310	02210		2003		02020	09700	.78400	.54210	1.44620
4.954			8	B i	9	0100.		0000	00000	.07010	.00480	.78480	.54250	1.44650
166.4				8 (07600	01390	02170.	.00460	.78230	. \$4220	1.44270
4.92				01000		08730		-, D1180	01730	00270.	.00460	.77720	.54010	1.43690
4.99		D. 24.			310	-,10550		.51495	08090	08240	.00480	. 77500	08655	1.43570
			R	8	06250	01350	·	00160	-,50150	06690*	007600	. 78600	. 0000	75000
	5		210	-,0000	600	00854	•	.00145	00194	00019	.0000	- money	•	

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(R67037) (16 JU. 73)

TABLE ATED SOURCE DATA - MSFC TMF 574

MSPC 574 (CA48) CRB 1398 W/ALT NOSE

	600.	
DATA	ELEVTR = BOFLAP =	
PARAMETRIC DATA	45.000 .000 999.990	
	ALPNA = 40.009 AILRON = .009 SPDBRK = 999.995	
	. 8 636.700 IN.	
	0 H W	
	} 	
	RETERBNE DATA 2000.0000 90.FT. 474.0000 1N. 936.7000 1N.	
	MET :	
	~ = =	

	1.04720 1.04720 1.04720 1.073170 1.05430 1.05530 1.05400 1.05400 1.05400 1.05380 1.05380 1.05380
	.96450 .96740 .99310 .99340 .99160 .99160 .99160 .96930 .97300 .97300
	0. 1.02720 1.03410 1.04490 1.04750 1.04650 1.04650 1.04650 1.02690 1.02690 1.02690 1.02690
5.99	CAB .00400 .00410 .00410 .00410 .00440 .00430 .00430 .00430 .00430 .00430
-5.00/	.07750 .07750 .07360 .07250 .07060 .07060 .07060 .07260 .07260
GRADIENT INTERVAL = -5.00/	CBL02320 .01890 .01890 .01830 .00850 .00850 .00850 .00850 .001110 .00160 .00
A. e.	113 98 99 99 99 99 99 99 99 99 99 99 99 99
	C7 .03940 .04160 .04160 .01000 01000 01000 06600 06600 06600 06600
	CLM CLM The07466 The077466 The077466 The07750
	ON 1,42070 1,43780 1,43780 1,43990 1,44900 1,44900 1,44900 1,44900 1,44120 1,44120 1,44120
	10.390 -0.390 -4.390 -4.370 -2.390 -3.40 1.670 7.730 9.690 -3.40
ı	

The second secon

(R87038) (18 JUL 73)

		13,750
	DATA	CLEVTR = BDFLAP =
•	PARAMETRIC DATA	000° 000°
		BETA = AILRON = SPDBRK =
MSFC 574 (OA46) ORB 1396 WALT MOSC		
MSFC 574 (YMEP = 836,7000 IN. YMEP = .0000 IN. ZMEP = .0000 IN.
		81 84 BE
		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	REFERENCE DATA	2980.0000 86.FT. 474.8000 1N. 956.7000 1N.

	RUN NO.	0 /611	RNT "	4.97 GRA	GRADIENT INTERVAL = -5.00/		-5.00/	8.90			
1.674 1.670 1.670 5.790 5.790 5.090 10.100 14.290 16.410 16.520 20.540	. 195090 . 41470 . 42280 . 42020 . 74600 . 98770 1. 19560 1. 19560 1. 19590 1. 45790	014 -115230 -115230 -115230 -115230 -117420 -117420 -116600 -116600 -116600 -116600 -116600 -116600 -116600 -116900	CY01590015900159002450024600274003500039100407004070	.00360 .00360 .00430 .00420 .00500 .00500 .00500 .00560 .00660	00070 00070 00084 00180 00180 00180 00180 00210 00210 00210	CA .09000 .08620 .09020 .07070 .05320 .05320 .05430 .07170 .056570 .056570	·	CAB .03789 .03639 .03609 .03609 .03609 .03609 .03609 .03630 .04240 .05573 .055140 .05530 .03540	CL .3214D .4120D .51640 .61970 .73030 .85410 .96260 .99620 .99630 1.1265D 1.25130 .86100 .04758	.00020 .00030 .11470 .13350 .16390 .20540 .26727 .40560 .40360 .57590 .20910	1.70 4.18545 4.18545 4.56810 4.45840 4.13810 3.60280 5.07280 2.77080 2.53570 6.11640 4.11640

		RUN NO.		116/ 5	PAY	6.24 GRA	GRADIENT INTERVAL = -5.00/	AL = -5.00/	8.00			
		i	Ĉ	3	č	8	ŧ	5	CAB	ರ	8	5
Š	VE V		4	5	,	Cuesto	K *C.	06201	04070	.30390	0.10670	2,64750
ķ	20		;		02460	00000	00000	10880	.03945	43450	.12300	3.53230
Ę	1.850				02619	Organia.	Carren -	10960	03980.	.56320	.14990	3,75690
989	4.080		i		0.02670	CE COO	070000	(911)	.04139	.65280	.18330	3,56020
ž.	6.210		ų.	56.	05620	0.500	00000	00111	04190	.74200	.22180	5.34520
ş	6.360			1360	02790	00400	Oueva -	11940	.04430	.84670	35112.	3.04610
940.	10.530		ij	225	0.6920	Contract of	09000	12360	.04820	.96130	.34260	2.79770
	12.710	-	i i	2362	02580	00000	- 00580	12730	05320	1.06730	.41960	2.56180
966	14.930	1.13070	ry ·	23680	(1982)	15.445J	CONTROL -	13140	.06230	1,14190	.44850	2.33760
86	17,080	•	ių i	3300	03470	00400	- 00440	13130		1,1965	.55630	2.15050
960.	19.220	•-		1420		Decor.	00440	13650		1.21670	61919.	1.96510
.	21.230	•-	:	171 A	09720'-	-,00010		11680		.84440	.27570	3.06200
į	10.53		4.7	-,21439		120		00000	12000	.06942	.01009	.21089
	GRADIENT	.0 6 266	0.1	00628	CNY 144	-,00012	. 1978133	. 17.77.74	• 3,-,-,-			

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TABULATED SOURCE DATA - HISTO THE BES

 $\hat{\boldsymbol{x}}_{i}(\boldsymbol{x}_{i})$

C 574 (0A48) CRB 1398 W/ALT MOSE PARAMETRIC DATA TODO IN. ALLRON : .000 BCFLAF = 13. SPDBRK : 999.990			13,750
B) CRB 1398 W/ALT MOSE PARA BETA = AILHON = SPORRK = 999		DATA	ELEVTR :
6) ORB 1596 WALT MOSE		PARAMETRIC	
C 574 (0A48) ORB 1398 W/ALT NOSE 7000 IN. 0000 IN.			BETA :: AILRON :: SPORM ::
	MSFC 574 (0A48) ORB 1398 W/ALT MOSE		. MI COCO. = 438.X . MI COCO. = 438.X . MI COCO. = 438.X
		<	X 1 X 4 X 4 X 4 X 4 X 4 X 4 X 4 X 4 X 4
A		REFERENCE DATA	174.6000 14. 174.6000 14. 196.7000 14.

MACA ALPHA 1,200 1	23.90 .37100 .51100 .63130 .63130 .78720 1.16480 1.16480 1.36790 1.36790	CLM 12e5G 1905O 1905O 2185O 2474O 2620 2621O 2564O 2564O 2564O 2564O 2564O 2564O 2564O 2564O 2564O 2639O	CT0174001740017400229002290026500279002790027900279002790037600	.00500 .00500 .00500 .00500 .00500 .00500 .00540 .00540 .00540 .00540	 CA .20930 .21090 .21090 .21090 .2140 .2140 .2140 .21500 .21500 .20025	CAB .06560 .06410 .06510 .06510 .06510 .07100 .07100 .07560 .07560 .06720 .06720	.23670 .36390 .49460 .42410 .42210 .74720 .97720 1.06770 1.15470 1.21360 1.21360	20050 .20050 .22240 .24670 .37240 .37250 .51110 .56250 .37620 .37620	1,1350 1,6350 2,00430 2,2206 2,28050 2,28050 2,28050 1,9500 1,72790 1,7350 1,7350 1,7350 1,7350

		2	200	TVN A	6.65 GRAD	GRADIENT INTERVAL = ~5.00/	L = -5.00/	3.00			
		5		1							•
			;	}	Ž	Ē	5	83	ರ	9	ξ
Š	A PAR	5	ð	5			£44.	03530	.09460	.19410	.61430
1.959	390	07590.	09930	01400	00000	00000		0000	17540	16030	1.09420
1.030	1.720	01061.	0737D	01510	00360	00000	2000	OFFICE OF THE OFFI	26190	17690	1.48020
1.959	3.660	.27330	08860	01550	.00320	06000	.1367	05550	0007	19470	1.75030
2.959	6.090	35990	10070	-,01600	.00390	0000	0751.	01660	07.67	21980	1.92600
050	6.230	.45060	11110	01700	.00330	00100	.15690	00200	0000	24240	2.01640
1.939	10.400	.54710	12150	01740	.00320	00120	.15660	03550	00000	28660	2.02640
	\$2,600	.63440	12920	01770	.00290	00150	.15390	.03420	. 2025	34410	1.98380
0.0	14.650	.74660	14210	01960	.02250	00180	.15740	.03460		40360	1.91790
666.1	17,050	.85650	15570	01880	Ge too.	0,100	.15670	06660.	0.446	46790	1,62600
1.959	19.260	.96110	16670	01740	.00126	0.100.	.15960	00000	0.00	06025	1.73680
1.999	21.260	1,03200	17320	01740	.00050	00100	15721	1300011	48550	24050	2,01890
1.050	10.320	.52000	11790	01690	. 00330	00120	.14950	00000	25050	.00541	.20452
	CAADIENT	.04246	16900. -	00035	00002	00007	CENTA:	- Charles			

DATE RE SEP 73	2 2	TABIL	tabulated source data – msfc tvt 574	DATA - M	SFC TAT 574					PAGE	2
			M	574 (OA48)	MSFC 574 (OA48) CRB 1398 W/ALT NOSE	ALT NOSE			(Re 7038)	1) (10 JUL 73	ت د
									PARAMETRIC DATA	DATA	
	REFERENCE DATA	E DATA									;
				71 0000 010			•	BETA =	000		18.000
H	2000.0003 SE.			ne oran			•	AILRON =	000	BDFLAF =	13,750
	-74. WOOD 1W.		, p	.000 IN.			ø	SPDBRK =	988.890		
SCALE :	0700										
		REW NO.	D. 143/ 0	H L	4.13 GRA	CRADIEST INTERVAL #	/AL = -5.00/	3.00			
			;	8	2	Ē	ð	3	ಕ	8	S
NOW!	<	5	5	ָב פֿ		00060	11590	01810.	02120	.11570	D1802.
2.990		02520	-,05750	2000	0000	0,000	.11620	.01840	.07640	11820	.64650
2.990		2	0000	01010	C8100.	00070	.11300	.01640	.13550	.12240	1.10690
2.50		00000	02750	07010	09100	06000	.11220	.01030	. 19500	13200	1.47760
2.990		3/9	0.000	-,01130	07100.	00120	.11110	.01620	.26140	.14740	1.77310
2.940		20072	Cocac -	0310	35100	00140	.11130	.01810	32870	.16950	1.93850
8.9 1 0		.335			00100	00160	.11200	.01810	J. 3957J	.19740	E.00430
2.990		16/24	0000		CeCCC	00100	.11340	00910	.46510	.23230	2.00220
2.990		. 50730	0.570	02530	OK COOL	00200	.11460	00910	.53430	.27260	1.95950
2.990		28680	COOC.	CONTRACT			11560	06710	.60310	.31860	1.69300
2.990	18.060	67230	09670	01210	canon.			000	67100	37090	1.60670
2.990	20,060	.75750	11040	01130	0.0000	2.00			33250	21071.	1.95470
2.990		.35660	06260	01240	.00140	0,000	11120	orero.	9		50242
	3	.02961	-,00141	02000	-,00010	-,00002	00052	YOOCH.	ec/20.		
		28	RUN ND. 144/ 0	ROVL =	4.94	DIENT INTER	GRADIENT INTERVAL = -5.00/	3.00			
					į	ŧ	ť	8	d	8	6/3
Ž.	454	3	ā	Շ	מא ו	4	5	R P C	01050	00020	12260
4.859	-,490	01120	02710	01120	09160	0000			03260	0690.	.37760
4.959	1.430	55.70	03350	01000	יאונטיי.	Denna.		6000	D9890	DAGAC	.64900
4.939		.06150	03430	00630	09100	00040	00590.	00400	07221	02560	1,33620
4.959	3.490	.13590	08730	00940		2000	negen.	C		+0740	1.65870
4.93		.19060	04270	01040		00110	06310	120,6020	11050	0101	. 8565
•		09062	04630	00940	.00110	00210	.06500	District.	cases.	06631.	
	•	31690	05540	01000	06000*	00120	C0990°	00500	29310	.14800	0.0000
		39110	-,06260	00940	C90CO*	-, 50160	00000	.00500	.35900	.17690	C. C
		00297	09070*-	-,00810	CYCCG.	00160	06260*	. nn49n	.42450	.2153.	1.9/140
		34660	08410	07600	00030	50170	.09480	2770	.49190	02725	DC216.1
		2000	08420	02000-	·	-,00150	06880.	.00469	.56090	.30510	1.65610
4.939	•	27136	04760	-,01030			00590.	01510	.2396	.12670	1.89160
4.939		Des 163.		72000		-,00019	00015	\$0000	.02194	.00104	.24584
	GRADIENT	.02346	*******	•							

}											
			MSFC	574 (OA48)	MSFC 374 (OA48) ORB 1398 W/ALT NOSE	ALT NOSE			(R87039;	9; (16 JUL	ر د ع
	REFERENCE	DATA							PARAMETRIC DATA	DATA	
									9	EVIR :	15.000
	2680,0000 98.F	÷	5.9% ×	636,7050 IN.				¥	8	BOFLAP =	13.750
. 25	474.8000 IN.		8 8	.000 IN.				SPESSIK =	990.990		
SCALE :	.0040 IN.										
		RN NO.	5. 146/ 0	#V.	4.19 GRA	CRADIENT INTERVAL = -5.00/	/AL = -5.00	20.8.00			
			3	t	3	ŧ	ฮ	3	ರ	8	S
Š		5 1	5	. 0.560	00000	00230	.11930	01910.	.67340	.38140	1.76370
2.9		2	061111-	0430	-,00160	-,00210	.12140	.01620	73960	44040	1.67920
8. 8.		nzace.	0.000	246	07220	-,00210	.12440	.01640	07609.	. 51040	1.56640
		mere.	00000	0.00	01200	00200	.12660	09910	.87560	.56530	1.49630
		1.04570	2000	92.50	07270	00160	.12960	09910	.94040	.66850	1.40650
2.30		1.14650		20110		00330	.13250	00610.	1,00300	.75860	1.32200
2.990		1.25060	00011-	-,02140		00500	13530	02610.	1,05850	.65310	1,24060
Z.990		1.35270	-19290	205/10		00310	13760	01930	1.10900	O5550.	1.16290
2.990		1.456ED	-20770	01620	Ce100:		14000	01910	1,15740	1.06040	1.09140
2.99D		1.96390	.22360	15190	09100	00000	00.71	00810	1,20090	1.17450	1.02240
2.990		1.67360	24360		2520		14620	01940	1.24410	1.29520	.96050
2.990	41.460	1.79000	27110	06620	octor.			C+0+0	1.00620	.76140	1.32400
2.380	050.15	1.25650	17790	02120	-,00100	-,000	01361.		D2746	.04375	03694
	GRADIENT	.04696	00732	-,00062	.00022	00083	•21M1.	2000			
		2 N	RUN NO. 145/ 0	RN/L =	4.94 GRA	GRADIENT INTERVAL =	VAL = -5.00/	ov. 8.00			
			;	i	ŧ	ē	3	3	ರ	8	2
Š	•	3	3	ָרָל בּי	C18	1	10120	00440	. 56630	.31790	1.78770
4.85		.64330	0.000	01140	26000	0.00	10520	06400	.63280	.37260	1.69640
4.93		72600	10000	0.240	00000	07870	07901	.00450	. 70310	.43650	1.61070
4.93		06020	12070	01340	00.00	0000	04634	0.000	07477.	. 51020	1.51620
4.1	e 26.350	0.026.	02661	01460	0.000	10000	11.040	00460	.84540	. 59260	1.42650
4.93	9 28.440	1,02560	14820	02610	Score	20000		CANCA	.91160	GAUDO.	1.34070
4.93	30.480	1.13070	16360	01560		00000		CALAC	09026	177030	1.25990
4.93	32.540	1,23260	17610	00610	THE RULE	00000		100	1,02880	GEOTO.	1.18210
4.939	34.640	1.34110	19320	02090	DOO.	0.000		CANAGO	1.07950		1.10930
4.93	36.000	1.44700	20680	01963	DSC/CO.	OVERCY-	01001	03760	1,12320	1.08020	1.03970
4.93	9 36.740	1.55210	- 22:320	01890	01000	(36:00)	1084	03460	04740	1.16190	.97930
4.939	9 40.680	1.64820	23430	02070	-,000020	- (10421)	141.	20000			1.34350
	90,460	1.13449	16290	01660	-,00100	0310	.12270	11.40.			

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Market M	1	1	TABLE	LATED SOURCE	: DATA - MS	PC TAT 574					PAGE	3 ¥
### ### ### ### ### ### ### ### ### ##	8 24 50 50 50 50 50 50 50 50 50 50 50 50 50	2		3	574 (Ok48)	OR 1396 WA	LT NOBE			(Re POA		. 87 4
STATE STAT				į								
Fig. 1, 1909 F. 1900 H.		MUSELLE	Z OATA							PARAMETRIC	DATA	
			<u>.</u>						į	į		-20,000
				*	200 IN.			-	DETA E	8 6		8
				*	.NI 000			- •	- X-20			
		•		H	DOD 1N.			•	- 10000			
NAME	SCALE :	CANCE.										
Column			E	0 /101			DIENT INTERV					
1,200							į	đ	83	ರ	8	5
1,280 -280,000 144470 -0.0040 -0.00400 -0.0	2	ALTH	5	ð	Շ	2	4		05140	26010	06890	-3.04190
1.00	ě.		24200	.14410	-,00940	0220	2000		01720	17840	.D7690	-2.32190
1.0000 1.0000 1.0000 1.00000	Į.		17630	.14500	01310	2.00.			07750	09890	.07230	-1,16370
1.000 .001400 .001400 .00014	16.	_	-,06100	.14640	01310	04100	9000	00000	067.50	01510	.n7100	.21290
1.000 1.0000 1.	766	_	.02190	.14640	01460	09100	-		097.40	12200	07470.	1.63190
### CAPPED - 148110 - 0.10870 - 0.00070	186		.13080	.14620	01660	01200	2000			23020	06890	2.57140
13.880			.24210	24210	01950	00250	-,00030	Dage.			11900	2.86960
13.900 .44130 .13450 00210 00220 00350 00350 03500 35440 00220 00350		•	35660	43970	01800	.00110	00070	04620	neezn.		0000	2,64340
16.100 .13450 .00280 .00380 .00390 .03850 .03850 .28810 .			46130	.13630	02160	02200	-,00060	.04530	00000	9366	Control	67480
10.100 171170 133350 02910 .00330 .00330 .00350 .70350	Ŕ Ì		59040	13420	02670	06200	03390	.04560	00680	. 23440		2.51860
#### CF CAMP CONTROL CON			2	13190	02910	.00340	00220	.04310	02830	10000	0365	
### ### CR	F.			12370	03180	00,00	00350	C. 650.	.04240	.76630	00000	
### NO. 102/ 0.4244	Ž,				0.	.00230	-,0000	.04890	.02610	.23140	nesan.	C . 2000
#### OF 1027 D 1027 D 1027 D 1029 D 10350	¥.	_	2007	2000	06000	00000	-,00047	-,00133	.0000	.04269	-,00323	.45752
### OK CM CM CT CYN CM CM CA CAB C C		STADIO".	2440	com.								
1.360			3	10. 10E/ C			DIENT INTER	VAL = -5.00				
Colored Colo										(8	9
			š	ā	Շ	X.	현	ð	3	,	3	
1.3501350001500 .00350 .00170 .00530 .03210134100 .00350		•	Called	17100	01620	06500*	06100	.10310	06360	7000		
\$.620 .01000 .1316001990 .00370 .00800 .03800 .03800 .11020 .11020 .11020 .11020 .11120 .03800 .09470 .03260 .11470 .11020 .11020 .11020 .11120 .03800 .09470 .03260 .11470 .11020 .1	į			.15500	0.01670	06500	.00160	10150	03210	14100	CE TO	00000
13760 11140 0850 .09570 .09540 .09540 .13770 .13310 .13310 .13500 .13470 .13310 .13320 .13			00000	.13160	00610	7530	02100	08630	00360	pasmo.	or or or or	0595
Color Colo			14780	11140	-,02500	07500.	.00050	P. 760.	. nszeo	147.00		08780
10.210			Cellor	09960	02300	cusco.	01000:-	.09340	.03120	coers.	21001	2 41820
16.350 .05130 .071200035000160 .09130 .03490 .51940 .22150 .22150 .25150		•		06400	02890	00400	COCCO.	.09250	06250*	AUSTO .	Coop!	2 4000
14.570				2	06620	00330	00160	.09130	.03490	. 51940	D. 102.	200000
16.740 .02500 .01220 .0035000220 .09290 .04180 .71210 .31070 .16.740 .17140 .271210 .31070 .16.740 .17140 .27120 .00320 .00320 .09860 .09860 .09850 .86480 .09870 .09880 .10220 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .08880 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10230 .10222	Ç		2016	27.60	01110	00410	00370	02690.	.03790	.61300	116162.	2.430/11
16.740 .77140 .07570 .00570 .000570 .000520 .000500 .04650 .00570 .350350 .06.800 .07670 .005	Ş		0000	3410.	OF CASE -	DS SU	00220	06260.	.04180	.71210	.31070	2.29200
10.920 .06480 .0767003500 .0787000190 .10230 .05090 .64470 .45530 .05090 .05480 .10740103500 .0788000190 .10230 .05190 .05390 .165300 .165300 .0658400705005860070500580070500587 .0658000222	8		.77140	21.0	013000	Caroco	04400	09960	.04650	.60500	.36030	2.11650
20,960 .94360 .1074010340 .00340 .00040 .08990 .03190 .39980 .16330 10.200 .0636010222 .00154 .063540091600003 .00003 .00003 .00003 .0015800007 .0636010222	Š		.86480	.07670	recen*-	Course.	19100	10230	06050.	.64470	43330	
10.200 .42240 .06420	8.		.94380	.10740		COLUC.	00000	COOPL	08150	39980		
.065340091600063	Ĕ		.42240	.06420	(12840	Cocca:	20000	88 +00	00007	.06360	·	.56836
		Ī	.06534	00918	00063	CO. 100.	enroe.	2000				

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BATE 25 3EP 75	2 2	TABU	LATED SOURCE	TABULATED SOURCE DATA - MSFC TAT 574	FC TAT 574					PACE	\$ %
			MBPC	574 (OA46)	MSPC 574 KOA46) ORB 1598 W/ALT NOSE	LT NOSE			(Re704 0)	ET 611	. 57
	XGIZI-GN	CE DATA						-	PARAMETRIC DATA	DATA	
											000
	\$600.000 SE.	ţ		636.7000 IN.				ATURON =	8 8	BOTAP .	8 8
5	474.8000 IN.		n •	.0000 IK.				SPERK .	999.980		
SCALE :	0000		•								
:		RIM NO.	NO. 1837 0	* 748	6.65 GRM	CRADIENT INTERVAL = -5.00/	/AL = −5.00	8.8			
		i	3	t	Ē	ŧ	5	3	ಕ	8	\$
Ŏ.	•	5	3	04.780	06900	00000	20100	OF 190.	16060	10340	. 7667
200.1		10000	06121	-,01960	03600	0000	20100	.06419	06960	. 20110	14250
		0074	04400	02030	.00310	00120	19960	02690"	.11090	0700	2555
		Q.	.Dee10	02150	02500	00160	00661.	00000	22730	2122	072401
		200	08780	02530	.00610	06000*-	.19100	06990	262.40	00642	
	***	07440	00750	02650	.00660	00000	18520	06660	46700	20073	
	_	06730	09870	02740	.00610	02000	.17890	06890	61130	200	
		0000	0000	02860	Casur.	.00020	17300	.07330	7180	orere.	
		014	05130	02820	.00430	-,00010	.16790	.07440	. 63100	43360	1.91850
		06130	00000	02870	.00410	00010	.16440	.07800	90870		1.83720
		11120	07800	02960	09600	00010	16000	.06120	9160	2965	1.73
		23,400	0/25/0	-,02610	.00610	09000*-	.18410	.06630	.49140	27860	1.7637.
	•	.06573	01911	-,00062	10000	-,00032	00074	00000	. DEE17	.000	*8606 ·
		CH MO	10. 10.	# 1/2# 1/2#	6.00 GRA	GRADIENT INTERVAL = -5.00/	W. = -5.0	5.30			
						į	į		c	8	5
Q	45	ð	ē	Շ	E	4	5	3	999	14010	-,44970
1.78	460	0.00770	.06130	01290	.00360	osoco.	14650	OCACO.	01750	14590	12060
1.965	1.60	.02190	0460	01340	0500	atom.		4	0000	14630	00060
1.963		.11040	06350	01400	00000	00000	1340	00350	19470	.19730	1.17440
1.963	8.930	0002	045340	03430	00000	9000		9	.26630	17190	1.54850
1.962	0.100	28790	.01810	03710*-	nearo.	ofons.	.13670	Che and	34820	19390	1.79090
1.963	10.270	.37720	0,010.	01360	06200	00000		03480	2207	.22250	1.93040
1.963		.46760	.00730	-,01580	00000	00000	2000	Carried Co.	51290	.25690	1.96070
1.10	14.70	. 56190	00000	01570	De too	00000-	1909:		30.60	30000	1.96100
1.963	16.960	08069*	00120	01530	00100	00000-	00111	08280	.66750	34870	1.91410
1.963	19.070	.74480	02900"-	01450	02000	09077	2111.	de len	2,00	40000	1.84340
1.963		.83360	01100	01420	09000"-	05000	10740	Deser.	34060	18710	1,61990
1.963	10.230	36640	.00760	01490	.00230	00040	00621	90000	9986	00066	05692
	GRADIENT	07370	00673	-,00026	00014	00007	00216	en on	1	•	1

DATE 28 BE	5	TABU	LATED BOUNC	TABULATED BOURCE DATA HISFC TMF 574	PC TMT 574					PAGE	۳ 5
			MSFC	574 (0448)	METC 574 (OA48) ORB 1398 W/ALT NOSE	LT NOSE			(R87040)	1 (16 JU. 73	ر تا ₋
	George	GEFERENCE DATA						•	PARAMETRIC DATA	DATA	
									900	ELEVTR =	-20,000
	RE 0000'0483	38.71. XX	*	636.7500 IN.			•	3		E STUDE	000
				.9000 IN.				SPORK =	99.990		
ECALE :	996.7000 IN.	.									
		2	RUN NO. 1997 0	= 74ª c	4.09 GRAD	CRADIEST INTERVAL :	AL = -5.00/	8.8			
			;	į	3	₹	5	3	đ	8	Š
Ž	•	5	5	5	E		.11000	00000	09090	.11140	45360
2.860		03800		26110		06000	10000	.D160	.00100	01901.	06600*
. N		0000				00000	.10410	00710.	05640	.10790	. \$4160
9		0		Control of	8	00000	09660	06610.	.11680	5111.	1.06370
8 .9			2000		9	-,00030	08960	04010.	.16260	.12190	1.49630
R.90		.19750	3610.	0/0/0-	05.00	06000	.09410	.01700	.24360	.13730	1.77440
2.80 2.80		06683	picio.	00000	00100	09100-	02260	.01720	.30665	.15640	1.93670
8.980		3355	06410.	0000	09000	-, 09000	09690.	00110.	37000	.18410	2.00970
 				00000	0000	C6000-	07780.	.01700	43470	.21500	2.01410
8.990		JE174.	orano.	0740	0,000	-,00060	08990	0710.	.49570	.25250	1.96290
2.9	7	24860	08020	0,000		00080	04890	01110.	.56020	06863	1.90640
20.7		. ec.710			OC FOLD	00090	06260	00110.	.24950	13620	1.60450
8.4			STEED.	06000	-,00015	0000	00169	01000	.02703	-,00066	.24706
	Parales .		-								
		3	RUN ND. 1607 0	0 BM/L =	4.09 GRA	4.89 GRADIENT INTERVAL = -5.00/	/AL = -5.00	2.00			
		į	į	8	3	ŧ	5	3	đ	8	ያ
į	•	5	5	5		0040	.06410	.00340	04919	.06450	56130
7.0		06660		00000	00100	00000	.06140	06500	01210	.06110	14960
7	_	2000-		0.000	00140	00130	.07850	.00360	O3370	07090	.41800
				00940	09000	00040	.07520	.00300	.07820	.06300	
				09800-	00149	00030	07570.	06200	.12770	06160	1.39630
				-,01010	00000	-,00060	.07190	00200	.17210	.10100	1.66960
4.9	_		Chorn		02000	-,00070	.07130	07500	.22800	.11960	1.90670
4.43			Coeco	-,00920	-,00010	00100	.07140	06500	.26360	.14250	1.96920
4.939		Contra	05600	00720	.00030	06000*-	.07080	.00370	34370		2.01890
66. 7	13.70	20077		00700-	09000	-,00090	.07100	06000.	.40210		
		000	01160	09900-	-,0000	-, 00000	.07090	.00370	. 46170		
	-	00101	01600	-	09000	-, 00050	.07230	.00360	.17720		-
	.	02220	.00199		00010	20000	00141	\$0000	.02086	-,00095	**16Z*

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TABULATED BOUNCE DATA - MSFC TLAT 574

MBFC 574 (OA48) CRB 1398 W/ALT NOSE

CRETDASS (Se JUL 73

600.01 600. ELEVIR BOTAP PARAMETRIC DATA .000. .000. BETA = ATLACH = SPDBRK = 636,7000 IN. .0000 IN. .0000 IN. 474.8000 1M. \$96.7000 1M.

1,05700 1,75500 1,09140 1,09140 1,51220 1,24200 1,10000 1,04100 1,42590 20100 CRADIENT INTERVAL = -5.00/ 5.00 CA .08480 .08530 .08530 .07300 .07300 .07300 .08630 .08630 .08630 .08630 .08630 .07390 CTN
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1.05620 1.76400 1.70390 1.61070 1.43590 1.24900 1.15610 1.15610 1.15200 1.13430 1.43430 24620 24620 34200 440120 46120 53610 661360 661360 661360 661360 661360 661360 CAS (1003-40)-40 (1003-40 (1003-40)-40 (1003-40 (1003-40)-40 (1003-40 (1003-40)-40 (1003-4 CA .07250 .07260 .07280 .07290 .07290 .07210 .07210 .06370 .06370 -,00000 -,00000 -,00000 -,00000 -,00000 -,00000 -,00000 -,00000 -.0260 -.00170 -.00170 -.00250 -.00140 -.00140 -.00170 -.00170 -.00170 -.01000 -.00300 -.0110 -.01100 -.01100 -.01100 -.01100 -.01000 -.01000 -.01300 0110. 00110. 00110. 00100. 00100. 00000. 00000. 00000. 00100. 00100. 00100. 294400 294900 294900 294900 294900 2,12310 2,12310 2,120900 2,140170 2,44200 3,44200 3,44200 25.250 25.250 25.250 25.250 25.410 35.410 36.250

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	:		MERC	574 (OA48)	MSFC 574 (OA48) ORB 1398 W/ALT NOSE	LT NOSE			(K87042)	2) (16 JUL 73	۲ ۲
									ATAN TENENT DATA	47.40	
	ROPERCICE DATA	. DATA									
				1				BETA =	000	ELEVTR =	-40.000
*	F8-0000.0002	•	H 656.7	136,7000 IN.				ATURON =	000	BOTAP =	-14.250
	ere some the		Б. Н	.0000 IN.				SPDBRK =	999.990		
# CM 2	.054.7000 1M.	À	, ,	3							
		3	0 777	178	1.86 CRAD	GRADIENT INTERVAL =	IN. 3 -5.00/	00.8 %			
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	***	ĕ	3	Շ	ξ	Ę	5	3		15620	-3.21970
	•		09602	00100	06000"-	.00110	.14320	nasen.	0.00		-2.94700
			0	-,00260	(DOOT)	06000	.14670	05950	4073		-2.42420
į			1	GESTIO	-,00100	0,000	14300	.03760	30440	2000	
į				00500	-,00000	00000	.13560	.04140	21700	00011	00000
Ę		nere-		4	00060	01000*-	.12420	.04140	-,10760	COLL.	
		-	5 17		06000	-,00080	.11120	04160	.01460	. 11530	20121.
į		.0587J	247			01100	.10200	04070	.13610	.13330	1.02060
Ę		.16040	.20730	26900-		OK ALL	02960	01960.	.25910	.16530	1.56690
Š	13.900	2112	2022	orre-	Ceccon.	0.000	08080	03880	.36950	.19990	1.64800
Ş	19,990	.410E0	1000a	01400	oemn.	2000	000	.03720	.46290	.24495	1.97130
6	18,080	.53510	.19740	2.20	Detroit.	00000	0.220	.04120	.59670	30070	1,96430
ě	20.120	orce.	.1960	06130	0.630	00000	96111	.04120	.01050	.11470	
	020.6	06620.	.21640	06600"-		CONTRACT OF		00036	04679	00752	.19612
	8	02150	00269	00056	03012	aura-					
		F136	RLW ND. 115/ 0	RNY	6.24 GRM	GRADIENT INTERVAL = -5.00/	YAL = -5.0	20.5 /00			
								•		8	2
		1	3	ò	N.C	ᅙ	ฮ	3	d		Ī
ğ	•	3		Carrier .	06000	02000	19790	.04600	47030	-	
į		47370		2000	00050	02000	06261.	.04560	36440		
Ę		36060	200	- meen	00130	02000	.18690	.04650	23540		•
į		24500	21912	00000		02000	.17960	00000	13200	_	•
Ę		11320			000000	5.000	.16900	01050.	.02100		
į	7.760	.0442D	.19900	01320	00000		13540	.0482D	.16360	. 18650	
Ę	9.930	.19340	.16610	01360	- 10,016	00000	14660	04760	30670	.21510	1.42550
6	12.170	.34520	.15450	-,01950	corco.	organi.	LOPE .	0.7847.0	.46020	.25690	1.79130
ţ	14,460	90900	.13730	01810	.0000	cocco.		04740	.58860	30020	1.92220
•		35170	.12800	-,01950	01000	oppor-	07837	ניצנוצני	70400		
		.76290	.11940	02130	-,00040	Corner.	09901	18880	. 77300	.40890	0.00069.1
		.06600	.12630	01690	-,00900	- 1816-2	00000	00000	.17459	(3686.)	0.92040
		52675	.1667	01370	00140	00000	10001				
									DEDG		

PAGE 73	(10 JUL 73)
	(R87042)
TABULATED SOUNCE DATA - MSFC TAT 574	MSFC 574 (OA48) ORB 1398 W/ALT NOSE
3475 28 367 73	

	40.000	
DATA	ELEVTR = -40.000 BOTLAP = -14.250	
PARAMETRIC DATA	000.	
	BETA # ATLINON # SPORKK #	9.907 5.00
		INTERVAL = -
		GRADIENT
		RIM NO. 116/ D RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00
	* " "	. 110
ATA		N M
RETERENCE DATA	MACE : 2000,0000 34,FT. LACE : 474,6000 34, MACE : 936,700 34, SCALE : ,0040	1
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87	29562	.e7160		200	2.090	.28070	30419	.33790	.37760	.42160	or 177.	.53410	.30440	00674
CAS AN	•	Ť		•										
ช	.20930	05244		200	.26720	.25510	.24560	23590	02022	19790	19100	.18360	.24450	00360
										05100 0400				
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			•	•										
			_	_		_				1.19				•

		32 NO.	166/ 0	- 5 2	6.66 GRA	DIENT INTERN	RADIENT INTERVAL = -5.00/	2.00			
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	5		5	;			10000	03430	-,16050	.19400	62770
	6		.10640			-					40.64
	1.40		00000	06600	9100	00060	16210	e 2009.	07240	nener.	
			0.00	05010	01106	-,00060	.16930	.03430	.01940	.17090	.11390
	2.5			04040		CPV000-	16480	.03850	.10960	.17690	07619.
	9.630					0.000	15700	03830	.19160	.18550	1.03310
	7.000					0,000	13640	03690	27900	.20930	1.33280
1.00	10.220		03000	2770			08671	03750	.34600	06622	1.55410
 6	12.350		06660.	-,02440	0000	00000		0.27	42860	.25200	1.69530
1.959	24.540		.04960	01460	CECANO.		200		21010	90440	05072
aca. 1	16.730		00230	01400	05000	-,000	13367	uc/cn.	216.		
	49.000		09380	01510	00000	-,00039	.12970	.03690	. 59260	RIN.	1.73660
			02650	01360	000en	00000	.12220	07070	.66650	.38770	1.71890
	9		05250	01230	06000	07000	.14749	.03540	.25990	.19620	1.32440
	TACTONA	.04536	00762	00007	120001-	00012	- 00539	00019	.04233	-,00543	.22189

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1	1	1484	TABREATED SOURCE DATA - MSPC TAFF 574	: DATA - 115	PC TAT 574					PACE	2
			S S S S S S S S S S S S S S S S S S S	574 (0848)	METC 57440A48) CRB 1398 W/ALT NOSE	LT HOSE			(RBT042)	2) (18 JUL	ر تا _{>}
								_	PARAMETRIC DATA	DATA	
								1			
	.00 0000.0003		r. 856.7	656.7000 IM.				BETA K	8 6	BOTAP =	-14.250
	.M. 0008.242		# 1	.0000 1M.				SPORK =	999.990		
	936.7200 JK. .0060		<u> </u>	: }							
		CH NO.	0. 190/ 0	# 7/8	4.11 GRM	CRADIENT INTERVAL = -5.00/	/AL = -5.0	2, 5,00			
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ğ	1	5	5		08100	02000	.13490	01810.	10770	.13593	- 79230
00078	96	-1000		0500	01100	00000	.13030	.01820	05520	.12900	-,42780
9			0.000	0000	0,000	00000	12530	.01810	5.00	.12590	osreo.
9			0070	0.000	02100	01000	.11790	.01840	.06500	12480	32190
6.9			04340	51070	06100	0000	.11250	.01870	12920	13060	
			04400	01080	09000	00140	10620	.01630	.19240	14270	1.34060
			04390	-,01180	01000	-,00040	.10550	.01850	.25320	09091	0.5076.1
2.3			04810	-,01220	00000	00020	.10240	C91 10.	.32210	16550	1.73630
200			0770	01280	00050	00030	00660°	.01760	.38140	00212	1.79630
			07770	-,01190	00170	00020	.09650	06210.	.44370	24600	1,00340
			06290	01030	00219	.00020	07590.	.01650	. 50590	06093	1.78190
			0600	01130	G9CCC.	-,00040	.10630	01830	.19680	14350	1,57070
8.3	endions	91000	09000	00003	-,00027	-,00005	00239	0000	. CE 797	00248	. 20063
		3	BN 10. 149/ 0	# 1 / 8	4.93 GRA	GRADIENT INTERVAL =	VAL = -5.00/	00.8 %			
			i				į	į	7	8	97
	AFR	ð	š	Շ	3	턴	ช		ا ا	:	05428
	25.	0.09670	02720	-,00930	00150	00020	.11100	02500	00160		42070
	1.400	05100	.02500	00000	02000	00070	10410	0000	Deser.	09760	10120
4.0	3.430	-,00400	06020	01600-	00010	00000	oraeo.	Control of	9	0.09670	42940
4.95	5.470	09060	.02510	00750	-,0000	0000	Deser-	2000	5	10040	.91520
4.95	7,910	.10420	07820.	00790	- 000050	06000	00000	2000	0007		1.28750
4.430	9.540	.15610	RL.	-,00700	00110	06000	00000	04700	66.01		1.56210
4.99	11.340	.21260	.03150	-,00740	00099	0,000	orise.	00400	Cant.		1.74389
4.99	13.660	.27590	.03410	99739	G9UGO*-	-,00190	osko.	.00460	CEACE.	16700	1.83940
4.93	15.690	.34150	.03410	DD67D	00180	00000	orru.	2000	TARRET.		1,65550
4.93	17.730	02504	.03460	00749	93260	00049	0.000	2000	CARCA.		1.62410
4.90	19.700	.47690	.03330	-,05600	-,00270	90940	UZ 570.	0.400	02.53.	10880	1,30260
4.93	3.4	.15700	.02590	-,00650	00149	.00110	.06370	0.0000		-,00319	19433
	GRADIEST	.02365	71000	.00017	-,00049	.00003	00327	John Marie			

191		ADTORUCE DATA	DATA	-	MBFC 574 (ON48) ONB 1598 WALT NOSE	DA48) ORB	1598 14/1	LT MORE						PAGE
1	• •	2000.000 80.FT.		,								(Ae)	(Kertes)	
		26. The same	436	ਵੱ • "	#34.7000 IN.						•	1000		۲. ع
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		•			.0000 IN.					ATLACK	• •	00.	E EVIN	
ł	į		REM NO.	147/ 0						SPORK	*	000	BOTA	14.250
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i .		_		ð	i			MANDE INTERVAL .		ě				
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8.980					O1370			.0000					.33420	
8.90 0					-01760			06000-	DE S			P.	.36600	Olines :
2. PE					06240	06201	•	000		.01sen		8. 8.	.44180	1.62590
2.90					-06100	00000			e e	.0187m		.74810	. 50ean	1.55470
2.90				0.000	-08030	00000			.07760	.013en		-90100	. 57440	1.47990
2.00					020en	00000			01.0	.01em		019610	.65120	2 - 3954D
		_			06130	George			07Cn.	.D1660		-9070G	73290	2.3176
				_	D1000	-00140			22.0.	.01620		.95170	.81660	2.53800
			i nord	•	00097	0030	000		0000	.01620	•		.9724n	1.16530
		772	RE IS		;	.00015	*1000·		06090	Other.	1.01660		0006	1.09410
ğ	;	!		146, O R	MAN.			;	DOI 16		.60750		0000	1.02910
	Ş	ð				. S.	Sign	ĺ			.02520		300	1.39360
	20.730		ð		č		" THIRTHY "	TOWAL =	-5.00			•		03529
	7. 10.		.04100		į	ž	ē			3.				
	24.27	013	.04190			00320	9	ฮ						
	26.330	COZ	.O48Do		·	0260n	0000		-07em	3	đ			
1.950	28.38	0652/-	Oktobe		_		00000			00700		8		5
4.939	1	02/00	2				00000-		3 1	.Doken	400		.24310	
4.939		09760			01200		CZIOC:		9	.D0420	Office.		·2845n	0720
4.950	8	.96200	Canen.			OSS00-	- 200en			-DOMAN	. 55390	_		1.72560
4	E	1.070	00,700	•		00300		57770			.6139C			1.65510
	36.640		07720			00260	0	05770.		Detroi.	67320			1.56660
000	76.080	060	. D4973	OCO IC.		0025n	01022	.07840			73220		-	1.48800
_	40.65	2252	.0474n	.01650	Ĭ	-Onem	01000	.074.20		•D0440	707.			1.4000
4.959	3	1.33300	OC ALL	01760	•	100.00	02000				3710			(130-1
8	Charles .	06566.	0225	015eg		Dien	opugo.	.07430			02650	.67040	•	. 32920
Ĭ	10101	.Det 2.	. CO 500	01460		_	Carrier	02270.			.88900	76300		1.25180
			.D0044		•	00359	Gerta C	.07150			.93240	50.		1.17920
							05000	.078en		-	.964m	.83960		1.11.70
	•						DDD01	7		-D0430	1000	.92230		
								Cran		.00001	GICC	.52010		G20 m

1	£	7ABIA.A	ITED SOURCE	: DATA - MG	TABALATED SOURCE DATA - MSFC TAT 574					PAGE	ž.
			MSFC	574 (OA46)	MSFC 574 (CA46) CRB 1396 W/ALT NOSE	VALT NOSE			(R67044)	4) (18 JU.	. 2
		ž							PARAMETRIC DATA	DATA	
	ALC CHEST	: :									Ş
	Peec. 0000 38.	38.FT. 3965	# 636.7	636.7000 IN.					8 8	ELEVIR =	-14.250
5		THEFT	# 9	.9300 IN.				ATURON S	200		
	996. TODO 1N.	2384	ii R	.000 IN.							
SCALE :	0700										
		ACM NO.	5. 113/ 0	* 778	4.97 CR	CRADIENT INTERVAL = -5.00/	VAL = -5.0	00.8 /0			
			;	i	8	ē	ಶ	3	ಕ	8	2
	454	5	ð	5	, i	ş 8	00000	03000	D8980	09090	-1.48150
904.		06060*-	20.	02110.	Orano.	06100	05750	02420	06800	02770	09990*
6		C7500.		offic.		Cetto	05130	06920*	.19750	.05820	1.64740
ğ		11000			CEACH	07100	00200	.02940	.20340	06830	3.24370
00		2012			01500	02100	.03160	,03040	.32080	.07590	4.23150
000		01417	06860	C64.0'-	00230	06100	.02260	03000	.43390	.09670	7.39200
			2000		02200	-,00039	.02670	.03270	.54500	.14300	3.61990
00		CONT.	06190	02635	.00330	02000	.02680	.03630	.65200	.19160	3.40250
			01550	02840	.00410	00100	.03050	.04120	.74890	.24950	3.00100
		00150	07530	~,03430	.00430	-,00120	.02400	.04510	. 8952D	.32190	2.78060
			00510	03560	.00440	-,02210	02020	.04830	1.01780	39910	2.54960
9	26.03	07040	08250	08080	.00240	.00100	.02340	.03150	.44130	.10070	4.38090
	CEAOTE	.04932	-,0006	00063	00019	.00002	-, 50,209	00027	.04836	-,00056	.61622
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		RUN NO.	D. 112/ 0	15 15 11	6.24	6.24 GRADIENI INIEKYAL 3.00	100 - 1000				
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			0920	01860	.90390	.00230	00020	00620*	.01160		16610
	000		CUODU	00120	.00370	.00230	.06960	02620.	.13290	.07840	. 69460
È		07256	03560	02140	.00360	.00140	02060	.02930	24970	0.960	2.57510
Ì		27840	04280	-,02310	.00360	00010	.07120	.03110	.36165		06926.2
	•	46940	02820	02390	.00340	06000*-	08:70	.03210	.46900		00166.2
		2010	0.630	02530	.00250	00200	07170.	.03560	.59400	.20440	2.906.2
È	24.4	76340	00360	05830	.00420	0390	.07539	.03980	.71940	.26630	2,79130
		CE COLOR	2	00000	.00380	00260	.07640	.04400	.82170	.32645	2.50160
ida.			00500	-,03060	09100	00250	.04070	.05120	.91525	•	2,26170
		20000	0.000	01.660	05000	-,00380	.08150	02650,	.96145		
8.		1.00140	0.000	02520	.00310	07000	.97149	.03210	.48720		m
. 69.	002.01	08600	- 171456	261370	90.902	10000.	00019	-,00004	.05551	.00179	.74002
	EX VOICE	******									

57 *538 \$4 3740	TABLEATED SOURCE DATA - HSFC THT 574		PAGE
	MSFC 574 (OA48) ORB 1398 WALT WISE	(887044)	(R87044) (18 JU. 7:
AGACA	REPERBACE DATA	PARANETRIC DATA	\$

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	1.98 0000.0883	71. X360	* 636.7500 IN.	90 IN.				DETA =	000		000
5	474.8000 IN.		100°	.9000 IN.				ATLRON = SPEBRK =	060. 060.	BOYLAP #	-14.239
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Š	AL PARA	5	5				16620	08250	05120	.16620	90720
 8		0500	na/en-	01610-		2	16510	05150	.12580	16900	.74450
1.10	1.70	13080	ososo.	00010	06600.		01691	05210	.25180	117990	1.39930
- 1. POR			0000	C	Carre	0000	15860	.05319	.37160	07661.	1.86090
		ocoac.	03610.		9	02000	.15480	.05490	.48300	.22770	2.12065
1		orrie.	01010		02500	01200	.15240	.05800	.60300	.26810	2.24640
1.502		212	00000	2000	0.00	08100	0.15070	.06290	.72810	.32080	2.26940
1.202		1016	OROKO -		00500	00100	.14890	.06520	.83640	.36040	2,19860
7. Z. K			0000	00000	C au	00160	.14740	06830	.93390	.44570	2.09550
1.206	-	200.1	2000	CE SECTION OF THE PERSON OF TH	0000	07.100	14600	.07240	1.01290	.51400	1.97060
302.1		1.15	200	1000	5	02100	.14140	.97450	1.08240	.56030	1.86500
303.	•	00000		0.000	0.00	06200	15190	.05760	00909*	.26810	2.25960
2.20	10.650		neach.	1					04450	A PATA A	77777
	CRACIENT	.06138	01242	92000*-	50000	90003	- CC-50	00010	2		
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1.952		-,00480	09220	0.5310	00000	Carrier -		03030	.07500	.13520	. ,6350
1.050		neerc.	orin.	00000			CEU.	03050	.15760	.14100	1.11800
1.952		.15660	00100	00000	2000	07000	12880	08620	.23620	.15440	1.54240
1.958		2.	C		00000	- 00040	12690	03020	.32160	.17445	1.84415
1.037		01646.	0000	0.80	00160	-,000	. 122.	.03140	.40270	.19910	2,02180
1.952		.43190	03010:-	25.00	500	0000	12000	.03180	.48400	.23080	2,09660
1.952			00130	0000	01100	00100	.11563	03270	. 55680	.26560	2,09590
1.952		Croro.	00000	600.0	OF CASE	06000	0611.	.03380	.6468!	.31640	2.04400
1.052			000000	55.5	200	02000	.11080	03570	.72730	.37039	1.96410
1.952		Cente.	Casa (04450	01100-	09000	.1000	.03660	.60450	.42890	1.87540
206.1		0.000	01210	01540	06100	C90000-	.12150	.03120	.39930	.19640	2.03340
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	SEADIEN!	acuso.	an Eval			! !					

DATE 26 8EP 75	2 2	TABUL	TABULATED SOURCE DATA - MSFC T.4T 574	DATA - MS	FC TAT 574					30 v d	7 9
			H\$VC	574 (0448) 4	MSVC 574 (OA48) OFB 1398 W/ALT NOSE	ALT NOSE			(R87544)	(16 JUL	
									PARAMETRIC DATA	DATA	
	REPERENCE DATA	E DATA									t
		400	COUNT. ATA	N. C.				BETA =	000	••	200
	. BC 0000.0892		}	.N. 0000				AILRON =		BCFLAP =	-14.250
	•		6.	.N1 CCCC.				SPDBRK =	999.995		
SCALE :											
		N N	RUN NO. 1517 D	#KL #	4.15 GRA	GRADIENT INTERVAL =	VAL = -5.00/	00.5 /			
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		5		CT 110	05100	.0000	.10550	.01660	02610	.10570	24695
24.2		06730	06900	01120	02100	oocco.	.10340	.01690	.52490	. 10410	00007.
		02800	.00440	01000	07000	-,00020	10010	01730	06947	.19319	.75050
		14570	06200	01120	.90069	00040	02960*	202170	.1354'3	06111.	1.20950
		21130	00200	01130	cecce.	-, 90050	.09320	.01720	1970	12060	1.65510
		28080	00200	01230	.00049	0,000,-	02160	.01740	.26130	.15740	1.90110
	•	23030	00200	01170	07000.	0000	.08940	.01750	.32450	.15930	2.03740
		S	01000-	01390	-,90019	00120	.08740	.01760	.30690	.18610	2.07880
		02507	-,00120	-,01220	-, 50045	00110	.08533	.01749	.45110	.21800	2.06600
		57030	-,50430	01090	-, 20100	06000*-	.08420	.01739	. 51600	.2570.	2,00769
		06839	00050	01130	002:0	0000	.08190	.01745	.56120	0266Z*	1.94220
	•	20600	02130	01280	09000	0.000	06060*	.01730	.26700	.13820	1.93260
74.4	3	.02784	\$ 1000	22000	-,00022	-,00005		, 0000.	.02606	 00014	.24750
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4.99		~.03440	070111	-,01090	00200	occo.	.06240	.00380	03360	0.280.	40000
4.036		09900	016003	01380	06100	COCCO.	02080	06200	09700	CAUSH-	dice.
4.939		06970	-,001450	01000	02000	02050	.07750	.00410	.04420	CCDAO.	acace.
		00760.	900.00	-,00960	.0006	01000	.07:40	00750	06690.	0.8080.	1000
		0777	00020	-,01060	.00030	-,59519	.07230	02420	.13370	C9060.	1.47610
4.679		19690	.00250	00600*-	05000	-,00050	6:120	.00420	.18420	.10320	1.78480
	-	.25610	.00320	01910	-,03020	-,00059	.07060	.00430	.23679	.12070	1.96080
940		32140	00460	00880	00000	.00110	00046	.05.439	.29570	.14410	2.05160
4000		1972	00380	2,31919	-, 000060	-, noner,	01690,	.00430	.35870	.17290	2,07499
408.		45760	00200	-,00810		-, 0000 to	02690*	.00419	.41470	.25540	2.01860
		CAURA	01800	-,03820	00110	-,00040	02690*	.99429	47640	.24419	1.95110
		0+606	Caron	00600	000030	-,00020	91170.	.09429	.18750	.19370	1.80730
4.939	3	.02114	.00148	60000	-,00033	-,00015	-,00124	A0000	.01975	-,00061	.24298

	(Rer045)
TABILATED SOURCE DATA - MSFC NAT 574	HSFC 574 (AA8) ORB 1395 W/ALT NOSC
DATE 26 SEP 73	

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(19 JUL 73) PAGE 79

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PARAMETRIC DATA	000.
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2.930	20.8E	.65210	00480	1271G-	05240	0000			67773	08885	1.6122
000	22.630	73160	01030	01300	00300	00100	Carren.	200			
	27.72	002.18	01460	01310	00350	00060	07870.	00010.	02604	.413C1	
		a de la constante de la consta	Ctern	00440	09800	00100	.07720	02916.	. 17390	.47780	1.6197
			Cores	01540	-,00400	00050	.07550	.01760	.63420	34700	1.52480
2.30	0::62				07600	COXOL -	.07440	01810.	.69520	.62490	1.43230
2.93 04.3	010.11	1.08920	0.020	01635	1.5.6			07870	05030	01707.	1.34400
2.990	33.1.10	9.16030	03410	02230	00000	0000	ore or			-	. 26540
3	24.45	1.27.010	04130	02300	01000	00390	.07100	.01850	3.0040	nees.	
		08765	04780	-,02360	01000-	-,00410	06690.	.01050	1.05020	06838.	AC191.1
			06440	Charles -	01000	00410	07790.	.01640	1.09040	.96480	1.10710
N.	39.460	1.00000			CACCO	-,00360	06990	.01630	1,12560	1,06300	1,03930
9	41.460	1.36060	20100	3043		2000	007400	CSA10.	C9869.	.62720	1.43410
2.900	31.010	1.09420	02 6 20	01860	- (4.125.)	01317	200			A47.FU	04174
	GRADIENT	.04363	00262	-, 200150	. DO018	000	00073	.0000	***************************************		
		2	NO. 153/ 0	RN/L =	4.92 GRA	DIENT INTER	GRADIENT INTERVAL = -5.06/	3.00			
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Š	Ę	5	}	;	0000	90.00	2,040	05800	.47270	.24920	1.89650
4.454	20.230	.52960	02000'-	00940		CE ION'S				29410	1.82270
	22.240	00000	00200	C9600'-	£100	00160	06690.	0.000	neace.		
	3	A0100	021510	-,01000	00260	00160	.06690	.00360	.60150	. 24650	10000
		0.00	00600	01230	-,00200	~.no160	09690	.00380	.66630	.40760	1,63500
4.53	00000		56.0	01340	00200-	00200	.06940	06500.	.73260	.47530	1.54130
4.93	26.410	2000	94.0		02,000	00240	CC690°	00410	.79460	.54730	1.45180
4.959	30.430	. 20540	20110		0000	CKOW.	(7887)	00700	.83660	.62765	1.36490
4.999	32.510	1.05970	La:C211*-	20110	00000		COMPAC	00800	.91400	.71420	1.27960
4.959	34.610	1.15790	-,02700	01730	11111	110000			0.000	201400	1.2019
4.059	36.673	1.25520	-, 03430	01749	00120	00250	.06760	16.380	00000		
	30.750	1.34930	-,04090	01729	00180	00270	.06730	.00360	i.ororu	060	
		44290	04710	01700	00160	00270	.06630	.30360	1,05110	.99070	1.06090
4.833	20.04	0.00		000-	52180	00210	07690.	06800.	. 79840	. 55040	1.45060
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	CAADIENT	60670	(3,12,31	1. CER. 100	*********						

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4.26320 .000 (R87046) (18 JUL 75) 00 004400 004400 004600 004600 015000 115000 12100 000099 ELEVTR = PARAMETRIC DATA -.02870 .09070 .22870 .32870 .32870 .87897 .87897 .916407 1.01407 1.07880 000. 000. BETA RATILAGN E SPOBRK E CAB .03360 .03340 .03340 .03340 .03340 .03360 .04660 .03520 .03520 .03520 CAB .03670 .03610 .03640 .03640 .03750 .04000 .04000 .05230 .05230 .06090 .06090 6.24 GRADIENT INTERVAL = -5.00/ 5.00 4.95 GRADIENT INTERVAL = -5.00/ 5.00 CA . 06450 . 06780 . 05780 . 05410 . 05810 . 05840 . 05370 . 05370 . 05900 . 05900 . 05900 CA .07520 .07520 .07520 .07710 .07710 .07710 .07710 .07750 COL. COLLOS. C HEFE STATOMAS) ORB 1398 W/ALT HOSE .00200 .00200 .00200 .00200 .00200 .00200 .00360 .00460 TABULATED SOUNCE DATA - MSFC TMT 374 -, 01140 -, 01140 -, 01.180 -, 01.430 -, 01430 -, 01960 -, 01460 -, 01960 -, 01960 -, 01960 -, 01960 -, 01960 C7 - . 02190 - . 02200 - . 02100 - . 02100 - . 02100 - . 03130 - . 03130 - . 03130 - . 03130 " " 636.7000 IN. .0000 IN. RUK NO. 1067 D NO. 109/ 0 -.01290 -.01290 -.10290 -.4130 -.4130 -.4130 -.4130 -.4130 -.4130 -.4130 -.4130 -.4130 -.4130 0070-00500-0 REPORDECE DATA 4.4%0 1.360 9.770 9.270 10.280 11.4%0 14.9%0 11.0%0 21.110 10.290 10.290 4.460 3.400 3.400 7.400 7.400 14.130 DATE SE SET 73 ********** *******

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MSFC 574 (OA48) ORB 1396 W/ALT NOSE

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(R87046) (18 JUL 73)

PARAMETRIC DATA

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DATA	CEVIR B
PARAMETRIC DATA	000.
_	BETA = ALLRON = SPEBRK =
	# 6365 IN.
	H # H
2	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
REPERENCE DAT	SACT = 2990.000 94.FT. LRCT = 474.8000 1N. BRCT = 994.700 1N. SCALE = .0000

		ACM NO.	6. 110/ n	# 1,2	6.65 GRA	RADIENT INTERVAL :	/AL = -5.90/	3 3: >:			
ő	454		ð	Շ	£	ŧ	5	3	ರ	8	2
			.01760	01660	.00410	06000	.19090	02530	.04240	.18060	.23490
1.1	1.750		01320	01800	02200	C7000"	.19020	.06260	02691.	.18540	06216
	3.960		04260	01960	.00430	00000	.17800	.06190	07762.	.19910	1.49500
	9.100		06390	02060	02700	00000	.17500	.06290	.41750	.22130	1.88660
	0.390		07660	-,02060	00000	00100	.17190	. D6490	.52740	.25150	2.09690
	20.620		09220	02630	01900.	.00190	.16970	.06840	.64560	09:62	2.19700
	12.000		11000	02760	02500	crocc.	.16673	07690.	00691.	.341.60	2.21860
	15,130		12470	02570	Cecno.	05130	.16610	.07240	67800	.406-50	2.14380
	17,320		13990	01920	06200	00200	.16500	.07560	01676.	476.40	2.04660
	19,520		13740	02750	.00290	00180	.16350	01670.	1.05307	08099	1.92550
1.199	21.590		13810	32750	.00210	-,00230	.16100	.06330	1.12740	.81.150	1.61970
1.19	10.630		09250	02000	00900	00200	.16930	02990*	G. 649.70	.29 120	2.20705
	GRADIENT	.06236	26510	-,0006	.0000	00021	00066	00032	.05906	.00431	.29128

		RUN NO.	D. 164/ 0	O REVL =	6.99	RADIENT INTER	INTERVAL = -5,00/	9.30			
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1.944	480	09610.	26000		.00260	00000	.14400	.03360	06030	.1,300	.14550
7	1.630	.10500	D1190		00200	00000*	.14190	.03360	.10090	11:490	08969.
7.5	3.600	.19210	02500		oraco.	-,00010	.13650	.03340	.16250	.1:100	1.20870
***	5.960	29390	-,03690		06100	occoor.	.13960	.03240	.27770	1.0500	1.63410
1.944	9.160	.36300	04640		oneno.	00020	.13649	.03150	.35970	.1.950	1.69630
1.944	10,370	.47290	05290		00100	-,00040	.13240	.03220	.44130	.21550	2.04790
***	12.570	.56570	05830		07100.	00050	.12990	.03320	.52380	.2 4990	2.09580
1.84	14,730	.65230	06210	01690	.00130	0.000	.12650	.03360	. 59890	.23830	2.07670
	17,000	.75940	D0690"-		07000	-,00060	.12550	.03470	.66930	.34200	2.01360
7.0	19.200	.83700	07730		00000	00060	.12320	.03590	.76870	39830	1.92970
1.94	21.273	. 94550	06290		00000	~*:DOG:	.12050	02/50	.83740	.48830	1.83900
1.944	10.340	.45920	04930		cozoo.	-,00070	.12900	.03230	.42850	.23940	2.04600
	GRADIENT	20000	00614		20000	-, 00009	00131	00005	.03829	22 10 0.	.25179

### ### ### ### ### ### ### ### ### ##	\$	TABLEATED SOURCE DATA - MSFC TUT 574	URCE BATA	1	1 TAT 574					PAGE	N
### \$10000 Be.FT. NOWER : 636.7000 IN. ### 474.6000 IN. 196F : .0000 IN. ### 10000 IN. 1967 IN. 1967 IN. ### 1 .0000 IN. 1967 IN. 1967 IN. ### 1 .0000 IN. 1967 IN. 1967 IN. ### 1 .0000 IN. ### 2 .0000 IN. ### 3 .0000 IN. ### 4 .0000 IN. ### 5 .0000 IN. ### 5 .0000 IN. ### 5 .0000 IN. ### 6 .0000 IN.			SFC 574 (OA	6	15 1596 WA	71 NOSE			(Re7048)	(18 JU.	
## \$474.0000 134, YNRF # #0000 134. ### \$474.0000 134, YNRF #0000 134. ### \$474.0000 134, YNRF #0000 134. ### ### \$474.0000 134, YNRF #00000 134. ### ### ### ### ### ### ### ### ### #	CREMICE DATA								PARAMETRIC DATA	PATA	
## 474,0000 IN. TYNE #0000 IN. ## 474,0000 IN. TYNE #0000 IN. ## 474,0000 IN. TYNE #0000 IN. ## 40000 IN. TYNE #0000 IN. ## 40000 IN. TYNE #0000 IN. ## 40000 IN. TYNE #0000 IN. ## 410 ## 41									Ę		900
## 474,0000 134, TYNE #0000 184. ### CRIM NO. 159/ D RUL # 4.10 ### CRIM NO. 159/ D RUL # 4.50 ### CRIM NO. 159/ D RUL		*	. 7007 IN.					ATLEON :	8 6		13.750
### CAM NO. 194/ D. RWIL # 4.10 ***********************************		 È È	M 0000					SPCORK =	999.990		
### CH											
#### CH C	E	M 10. 156				אנפאד זאדפאי	/AL = -5.00/	8.80			
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1.400			•	9	00200	00000	.10720	.01640	01600	.10730	14940
8,500	,			8	00100	000	.10940	.01660	.03400	10630	.31960
9.700			_	010	00100	-,00030	.10130	02710.	09600.	10700	DRANG.
7.900 9.740 9.740 9.740 9.740 9.740 11.620 13.940 9.740 14.900 9.4900 9.4900 9.7000 9.70000 9.70000 9.70000 9.70000 9.70000 9.70000 9.70000 9.70000 9		Ī		00	02100	0r200*-	C9960.	07720.	13030	11390	1.32240
### CP			•	2	.00100	-,00090	.09540	.01760	.21330	.12500	1.70590
13.940		-	·	90	.00110	-,00060	.09350	.01749	. 27700	.14250	1.94420
13.940			-	8	00000	06000	.09240	.01770	.34290	.16620	2.06260
16.000 - 0110000110000110000001 16.000 .09000000100110000000 20.000 .0900000140001140001140000116 20.000 .0000001140001140001140 .00116 1.490 .00000011400011401000000 .01140 .00116 1.490 .00000011400000000 .00116 1.490 .00000011400000000 .00116 1.490 .00000000000000000 .00116 1.490 .00000000000000000 .00116 1.490 .00000000000000000 .00116 1.490 .00000000000000000 .00116 1.490 .00000000000000000 .00116 1.490 .000000000000000000 .000000 .0000000 .000000 .000000				20	00000	06000*-	06060	.01740	.40630	.19760	2.09740
19.0000001				8	00010	06100	06690	.01.	.47300	07622.	2.06180
### CT CT CT CT CT CT CT C	_			000	06000*-	03120	.06940	.01760	.53960	CODAZ.	Decea.
#### ON 19750146001140 .0005 ##### ON 1977 0 FW/L = 4.90 ##### ON ON 1977 0 FW/L = 4.90 ##### ON	_			090	02120	-,0000	.06610	.01750	.60410	.31470	1.91950
######################################		-		140	00100	06000*-	04860.	.01740	.26200	.14360	1.96340
#### G# G# GLM CY CYN 4600890001440100630 .10015 1.450 -01380001440100780 .0014 5.450 -03820001240100780 .0014 5.450 -0382000064000780 .0014 7.540 -146900066000780 .0001 11.620 -206900066000780 .0001 11.620 -206900069000780 .0001 11.620 -206900099000780 .0001 11.620 -206900099000780 .0001 12.520 -4737001630006100001 12.500 -210000163000610 .0001 19.700 -210000163000610 .0001				2	00025	-,00007	00146	.00020	.02619	00007	.24477
4,494, CR CLM CY CYN -,460 -,02900 -,01460 -,00530 ,00380 3,450 .01360 -,01241 -,00530 ,00380 3,450 .05220 -,00940 -,00390 ,00320 7,540 .12690 -,00640 -,00720 ,00050 11,620 .26560 -,00560 -,00770 ,00070 15,750 .40100 -,01280 -,00390 -,00080 15,750 .47370 -,01610 -,00520 -,00080 15,750 .21000 -,01630 -,00640 -,00080 15,750 .21000 -,01630 -,00680 -,00080 15,750 .21000 -,01630 -,00680 -,00080 15,750 .21000 -,01630 -,00680 -,00080 15,750 .21000 -,01630 -,00680 -,00080	£	JR ND. 157				DIENT INTER	VAL = -5.00/	2, 5,00			
1.450		:	i		{	ŧ	đ	8	đ	8	S
1.450 -01200 -101240 -101240 -00030 -00180 -				5		9,000	09090	07500	02030	.06110	- 34970
1.450	•	-			08100	00000	07870	.00360	09600"	06840.	.12450
9.450				069	02100	00010	00770.	.00473	.04740		. 5926:
7.540 .169000065300720 .00073 .16900 .100653 .100720 .00710 .00003 .11.620 .206600055000710 .00003 .11.620 .20650005600035000010 .15.660 .23430009200095000610				0690	05000	00030	.07390	00400	.09230		1.11090
9.560				22	.00070	00040	.07160	02.00.	.13910		1.53450
11.620				710	00000	00020	CEUZO.	JUNEUU.	02261		1.85340
15.660 .33430009:00055000010 15.720 .40100012:0006100000 17.750 .47370016:00062000070 19.700 .54840016:00063000060 9.560 .21000006:000640 .00000 10.0000006:0 .00010 .00010				350	01000	-,00030	מיסיים.	.00400	.24590		2.00350
15.720 .40100012100061000000 17.750 .47370016100062000070 19.700 .54940016000063000060 9.560 .210000063000640 .00010 64401047 .00010 .00010 .00010				650	0.1000	00050	07070	.00420	.35610		2.06930
17.75000070016000062000070 19.700 .54940016000063000060 6.00000 6.0000000640 .00010 .00010 .00010 .00010 .00010 .00010 .00010				610	09000:	-,0007	COULCE.	.00420	.36680		2.07320
9,560016300163000640 .00000 9,560 -210000063000640 .000000 69,60100019 .0001100011				623	00070	00050	.07080	.00420	.42950		02670
91500 - 1000 - 1000 - 10000 -			·	630	-,00060	00019	.07230	.00410	.49290		1.94590
81000 1000 61100. 19020. TAGIOARS	,			079	00000	00050	.07060	.00410	.19530		1.86770
				511	00018	00010	96000"-	90000	.01921	00021	.23914
	-										

TABULATED BOURCE DATA - HSFC TMT 574	MSFC 574 (CA48) ONB 1398 W/ALT NOSE
DATE 29 927 73	

PACE BY			.000
Z	(Re7047) (18 JUL +)	DATA	ELEVTR = BOFLAP =
	(Re704	PARAMETRI - DATA	000.
			BETA B ATLINON E SPORKE
TABULATED BOURCE DATA - HSPC TVT 574	MSFC 574 (OA48) ORB 1398 WALT NOSE	EDICE DATA	10. 1000 = 0.000 10. 10. 1000 = 0.000 10. 10. 2000 = 0.000 10.
25 13		REFERENCE	Sect = 2880,0000 88.F LPC = 474,8000 IN. Sect = 956,7000 IN. SCALE = .0040
DATE 20 SEP			2 CALC

		RUN NO.	0 /651		4.09 GRA	OIENT INTER	GRADIENT INTERVAL = -5.00/	8.8			
Š	AL P.M.	5	ð	Շ	Š	ಕ	ð	3	ರ	8	S
	9		.03700	06210	00230	02100	02690.	04.10	.60450	.32260	1.67330
	9		04240	02216	09200	J090	0000	01030	.66960	.37550	1.76555
	24.73		0.000	-,01340	00320	09000*-	.08790	.01630	.73340	.43410	1.66910
	8		00860	01380	00310	000ro	08780.	01870	.00140	. 50330	1.59220
	28.940		D6830	01550	00370	00040	creen.	01870	.68470	.57670	1.49910
	210.01		.07650	01960	00190	001 M	007.00	01690	.92550	.65790	1.40660
	35.130		06520	02330	00000	00340	.06630	06813.	00296	.74480	1.51960
	14.95		00530	-,02280	00000	-,00340	.08630	.01890	1.03710	08969*	1.23610
	37.390		10450	02430	CCCCC.	00350	.06320	.01660	1.06360	.93450	1.15950
	87.98		.11460	02490	01000	-,00360	.06460	.01860	1.12510	1.03570	1.06830
	C. 17		.12450	02350	00000	-,00350	06370	.01860	1,15860	1.13580	1.02000
	20.00		0000	01930	00210	-,00190	.06650	06910.	.92900	.65960	1.40050
	GRADIEM	.04541	.mo.24	1,000	61000.	00017	00024	. DOC/13	.02702	22660.	04133
								1			•
		S ME	25. ON MEN	1	4.92 28.4		CRADIENT INTERVAL = -5.00/	8			

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		55,000	02110	00920	00140	00020	.07540	07500.	.49610	.26370	1.66060
	2	988	02670	-,00940	00230	30010	.07560	.00380	.55600	31000	1.79990
	24.280	75140	03390	00960	00300	00000	06940.	oesuo.	.62600	36680	1.70650
	0E 130	00018	06090	01140	00200	00040	08770.	carao.	(4)269	.42960	1.61070
	019 08	90610	0.04620	01260	00290	-,00030	00840.	02400.	.75930	cedos.	1.51610
	20.430	0.000.1	05530	01300	07100	00040	.06100	.00410	.82280	.57780	1.42390
	Se. 510	1.10120	06360	-,01620	00120	00110	.06050	CIPOU.	.86530	.65990	1.34140
	24.610	2.8080	-,07390	01740	00090	00160	.09120	oxico.	.94360	.75020	1.25760
	36.6 70	07106.1	06190	0166D	06000*-	00120	01.500.	06804.	.99460	.64370	1.17690
	24.710	1.38920	02260-	01780	-, 50140	00110	06190	00200	1,04049	01666.	1.10780
	079.04	1.49645	10250	-,01840	00100	00070	.00250	07800.	00190.1	1.03790	1.04140
	30.460	1.00720	05490	01310	00150	-,00060	.06070	.00400	.62730	. 56: 20	1.42500
	GRADIENT	.04645	00397	150091-	•0000	90000:-	.00036	00000	02620.	.03620	04179

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DATE 20 SEP	5 C	TABLE	TABLLATED SOLACE DATA - MSFC TWF 374	DATA - M	JFC TAT 374					7	3
			MAPC	HSFC 574 (OA48) ORB 139	ORB 139				(Re7048)	6) (17 35 73	~ E
	NO CHECK	KE EATA						-	PARANETRIC DATA	DATA	
	1		\$	No COURT PAR			_	BETA =	000	CLEVTR =	000
	474.9000 14.		8	. DODO 1N.			-	ATURON #	000	BOPLAP =	900
	966, 7000 IN.			.0000 IN.				SPEBRK =	200	•	
-	07-00-										
		RUN NO.		4	7.15 CRM	CRADIEST INTERVAL =	VAL = -5.90/	9.00			
1	7	5	3	5	Š	형	5	8	ರ	8	5
	-	0.00	01010	00000	00000	-,00030	.14290	.03120	09050	.14260	.35940
		.13610	00000	00120	.00140	~.00090	.14190	.03100	.13190	.14500	.90490
1.947		2012	04330	00290	.00140	-,00070	.14060	.03140	.21160	.15500	1.36560
27.5		.31940	09620	00360	.00120	-,00060	.14160	.03130	.30260	.17430	1.73720
1.047		39600	04740	00490	.00160	-,00070	.13630	.03030	37230	01681	1.92790
1.947	#	00607	07790	00600	.00150	06000*-	.13540	.03140	.45200	25040	Z.05430
1.947		.57540	01180	10660	.00190	00050	.13310	.03270	CKARG.	. 25500	2.06850
1.947		06830	09360	00660	.00190	-,00060	.13020	.03360	.60090	29190	2.03630
1.047		73640	10270	01049	OT 100.	00050	12940	.03410	.66590	.34410	1.99330
7.1		00450	11260	01160	.00200	-,00060	01821.	.03570	.76500	40060	1.90820
1.947		01788.	12370	01290	00200	0,0000-	CTT21.	09050	. 64600	.46540	1.61750
7.0		00207	orm	00600	.00160	-,00060	13390	.03130	.45010	.21630	2.06110
	PACITOR	.04075	-,00026	- 00009	<i>eacaa</i> .	•.0000	00055	.00003	.03619	.00294	22623
		CH WILL	900	1	4.06 SRM	DIENT INTER	CRADIENT INTERVAL =5.00/	3.00			
		!							,	1	•
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8.580	480	-,00490	08460	00000	-,0001	-,00030	.10770	.01780	0000	Devor.	00000-
R.990		03070	02460	06000	09000	00000	10630	.01780	.04550	10790	00624
8.900	S.580	.10800	05830	00100	02000	00010	.10360	.01620	.10240	.11030	0.926
2.990		17040	05230	0220	00000	00030	.10060	.01830	.15960	.11690	1.36700
2.990		06467	03660	-, 20230	croon.	-,00020	00060.	.01960	05023	.13030	1.69200
2.980		30340	04290	-,00360	09000	00040	.09610	06810.	.26250	.14600	1.90900
E. #00	*	37520	04790	00360	02100	00010	06960.	.01890	.34740	.17160	2.02410
2.900		.44390	0534D	-,00560	09000	00030	.09560.	.01865	41000	.19960	2.05370
2.5		. 54280	07660	-,00670	00000	00050	06260.	.01840	.47670	.23410	2,03610
2.990	16.030	.60040	D6720	00780	0,000.	-,00020	.09340	.01860	.54200	.27470	1.97295
2.5	20.030	.67960	-,07420	00730	07000	00020	.09320	.01863	. 63660	.32020	1.69440
Z. 980	9.730	30090	04280	00370	07000.	00049	00060.	.01900	00992	.14850	1.92540
	GRADIENT	.02632	00066	00043	, pp007	\$0000	00098	.00010	.02645	.00063	.24002

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DATE 25 357 TA

TABULATED SOURCE DATA - HISTC THE STA

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(Re7046) (17 SEF 75)

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MBFC 574 (OA48) ORB 159

PARAMETRIC DATA

636.7509 1N. .0000 1N. .000 1N. REPERENCE DATA 2860,0000,86,FT. 474,6000 EM. 936,7000 EM.

ELEVIR BOTLAP 000. BETA = ATURON = SPOBRK =

1.70 1.1350 1.07930 1.07930 1.28080 1.8280 1.8280 2.03180 1.83180 1.83180 1.83180 1.83180 00 00440 0040 0040 0040 0040 0040 0040 0040 0040 0040 0040 0040 00 -.03120 .00040 .00040 .00040 .10000 .10000 .31000 .37630 .37630 .49640 .60000 .00000 C4 .08410 .09800 .09800 .07800 .07800 .07800 .07800 .07800 .07800 CTN (001500 (001500 (04 .01100 .01100 .01100 .11000 .11000 .11000 .41170 .41170 .41170 .11000 ACM 1.480 3.400 5.480 7.480 11.380 11

Market Statement DATA Mark	MIT 23 M.	c c	14	TABLEATED BOLNCE DATA - MS-C TWI 374	ce data - R	FC 1MI 374						
### ### ### ### ### ### ### ### ### ##				MESE	574 (OA48)	008 139				Ž.		r C
Column C		DISTRIBUTE (DATA							PARANETR1	E DATA	
### 44-40000 184, Page 1 (2000)										800		900
### 1,0000 IN. Part 1,000 IN. ### 1000 IN. Part 1,000 IN. ###				•					1			8
##4 NO. N.		474.0000 1M.			3000 IN.					3		
### 10000 ### 1.350		\$34.7000 IN.			2000 IN.				a Kanada			
Main Ca Mark A.57 GRADIOFT INTENNAL = -5.00 5.03		900										
CTM			7512				NOTEST INTER		5.03			
1.46 1.46					•	3	t	3	ŧ	ಕ		
1.550		-	į		5		00000	57,00	01200	.01500		
1.000 1.00		•	į				- 00400	06000	04200	.11100		
1.200						01150	-,00610	.00120	.00220	21750		
T. SED		-			32640	00570	G2000*-	.00120	06100.	32230		
1.5.00		,	į		44550	-,00210	01240	.00240	.0025	.43610		
12.000		s***	į	038	53150	0990	01260	.00160	.00220	.51530		
14.140			į	12.040	2	01400	01090	06000	00010	.61760		
16.259			į	14.140	.74690	01460	02020	or 100.	.01050	.71520		
18.350			ğ	16.250	CDOTS.	01540	01680	.00030	.00710	.82250		
## ## ## ## ## ## ## ## ## ## ## ## ##			3	16,330	08686	01520	01820	9000	-,0000	.92160		
9.6ED .2E916 00640 00126 00126 00022			8	20.350	1.07310	00010	02080	02100	00150	00066		
GRADIENT LOSIUS 00224 00126 00012 .00002 ALTAA CN CLA CY CYN CN GBL 400 .00260 .00260 .00260 .00170 00000 .00170 00000 1.600 .26870 .00260 .00450 .00170 00100 00100 1.600 .28850 .00260 .00100 .00260 .00100 00100 1.600 .2860 .20270 01000 .00260 .00110 1.600 .26410 .02270 01200 .00270 .00110 1.6.670 .77440 02270 01500 .00220 .00200 1.6.670 .77440 02700 01710 .00130 .00140 1.6.900 .20350 01770 01800 .00130 .00100 1.6.900 .20350 01800 .00120 .00100 1.6.900 .20350 01770 01800 .00130 .00100			į	026'6	. 5291t	07900-	01400	.00130	.00200	.51300		
Mark Ox Ox Ox Ox Ox Ox Ox O				GRADIEN	.05105	00294	00126	00012	20000	10060		
ALFAA			3				ADIENT INTE	WAL = -5.0	90' 8'00			
400 .03280 .0248000480 .0017000000 1.660 .14860 .0148000000 .0017000100 5.600 .28670 .0148001090 .00290 .00020 1.0610 .28670 .0127001090 .0023000410 10.270 .264100273001800 .00230 .00370 12.4.690 .364100273001800 .00230 .00300 14.4.690 .364100273001800 .00310 .00300 14.4.690 .363200623001800 .00310 .00400 14.4.690 .203200629001800 .00310 .00400 14.4.690 .203200630001800 .00320 .00310 14.4.690 .203200630001800 .00320 .00320 14.4.690 .203200630001800 .00320 .00320 14.4.690 .203200630001800 .00320 .00320 .00320			Ž	7	7	×	Ծ	š	ŧ	ರ		
1.650		_	į		002500	CRAE	00490	07100.	03000*-	.03330		
3,690 .28670 .70200 01090 .00290 .00100 .00200 .00110 5,960 .3999 00270 01270 01270 .00270 .00210 .00210 10,270 .56410 02720 01360 .00270 .00200 12,470 .77440 02710 02730 .01310 .00300 14,690 .83120 02710 .01710 .00140 .00400 16,600 1,0360 01710 .00140 .00140 .00140 20,900 1,0360 01890 0190 .00140 .0010 20,900 1,0360 01890 0190 .0010 .0010 20,910 1,0360 0180 0180 .0010 .0010 20,910 1,0360 0180 0180 .0012 .0027 20,910 1,0360 0180 0180 0180 .0010 20,910 1,0360 0360 0180 0180 .00180			9	0.00	.14960	.01450	00600	06100	00100	.14730		
5.960		v	8	3.630	.26577	00200	06010*-	.00250	02000	26000		
6.090		-	8	096.5	39995	-,00590	01060	06300	00110	34970		
10.270				060.6	.44460	01270	01200	.00290	.00070	.42050		
12.470 .774400571002730 .00310 .00360 .00400 .44.650 .631200523001570 .00160 .00400 .00400 .953500757001710 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .001500690001990 .001300013000100 .0012			8	10.270	.56410	02730	01500	.00270	00200	.53960		
14,650 .831200623001570 .00160 .00400 .00400 .00400 .00400 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .00140 .0013000400 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120 .00120			8	12.470	.70440	05010	02030	cisno.	.00560	.6684!)		
16,670 .953590737001710 .00140 .00140 .00140 16,960 1.036900696001990 .00130001010 20,970 1.07970014100157001570 .00120 .07270 .07270 .00150 .071620 .07120 .07120 .07120 .07120 .07120 .07120			8	14.650	.83120	06230	01570	09100	.00400	. 78059		
16,960 1,036500696001950 .001300010 20,970 1,07970144100157001120 .00120 10,290 .572600303001620 .01260 .00270 68ADIENT .055050052500133 .00019 .02010			00	16.870	35350	07370	-,01710	.00140	.00140	.86350		
20,970 1,07970 -,14410 -,01570 -,0120 ,017070 10,250 10,250 -,01620 -,01620 ,01270 64ADIENT ,05505 -,00525 -,00135 ,01010			8	16,960	1.03650	06960	01990	.00130	00010	.94760		
48.40 (48.40 - 40.000 - 40.400 (40.200 - 40.400 (40.40			006	076,02	0.07970	N4419	01570	00120	cocce.	.96650		
CRADIENT .055050052500133 .00019 .00010			6	10.290	.57260		01620	. mn260	0.027.0	. 54800		
				GRADIENT	.05305	-,00525	00133	61000	.00010	.05359		

TABLEATED SOURCE DATA - NOFIC THE 574 DATE 29 SEP 73

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PARAMETRIC DATA

(EGTO46) (06 SEP 75)

PAGE 07

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ELEVIR :

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BETA = ATL/ROW = SPORRK =:

HSPC 574 (OA48) ORB 139

.0000 1M. .0000 1M. REPERBICE DATA 474.8000 98.FT. 474.8000 Ed. 376.700 Ed. 0.0 9 MeV. = 6.16 GRADIENT INTERVAL = -5.007 5.00 RE TO

đ	.10950	.23110	.34690	45370	. 55460	.68300	Crear.	.09460	.97450	1.04600	.05532
ŧ	00000	00100	00100	00000	.00110	.00210	.00140	09000	02100	.00220	00023
£	02100	00100	.00130	.00170	01300	.00200	00200	.0020	01800.	00600	30000
5	geong.	00130	00230	-,00530	-,50630	01200	01260	91490	01700	02480	00067
ð	00640	02870	04640	06330	07440	-,09930	11750	13070	13850	13860	92 600'-
5	.10060	06962*	36190	.47970	02906	.72010	02450	.97410	1.07560	1.17160	.05863
*	290	1.640	4,000		0.430	10.40	12,900	15.130	17.320	19.490	GRADIENT
0	4.00	200	1.200	1.200	1.500	1.200	1.200	1.200	1.200	1.200	

	į		TABLE	TABLE ATED SOUNCE DATA - MSPC TAF 574	CATA - NSF	TC TAST 574) } !	
OAIT DE ROY	2	÷			261 CED 104 107 105 105	8				(Re7049)	ET 108 T1) (e -
									•	PARAMETRIC DATA	DATA	
	STATE OF THE PARTY	NCE DATA	•						i	٤	DEVTR =	999
	M 0000 M	ŗ.	*	= 636.7000 IM.	00 tw.				ALLACH :	9	= 47.00	66.
	474 (FEE 18.	글 로		* *	.0000 EM.			••	SPORK *	33.990		
SCALE .			3	6	¥	4.0e GRAD	CALDIENT INTERVAL =	N. = -5.00/	90.8			
						ŧ	ŧ	5	3	ರ	8	5
Đ.	5	8	•	5	01070	2000	-,00060	0000	C 810.	9019		1.74360
# . S				0000	01080	0000	-,00060	9	0440	5.00	44300	1.66740
		•	0	ORET	01110	-,000g	0000		01960	ocrer.	.90740	1.57140
	8.7	į	09096	10090	06110	0,000	00000	06760	.01860		. 56340	2.47270
2.9	20.00	1,05720	9	00011	0000	00000	00120	99400	00610	.92230	0000	1.30530
8.580	30.970	ਜ ਜ	1360	-	09910	01000	-,00100	.09360	.01910	57778.	00000	1.22710
086.S	23.040				0010	08000	00140	.09350	01930	1,029.1		1.14910
8.50	35.580	i i	2.51	9.51	00610	06000	-,00160	06260*	02610*	Carrot .	•	1.07630
2.9	27.70			18250	C#020*-	30100	00520	02260	06610.	0.071	1,13290	1.01400
	41.330		0.000	17510	08180	00100	3	0000	00610	. 82720	.66640	1.39130
9	000 OR	_	1.13000	11960	01570	octoo.	90000	- 0000	,0000	,0et32	.03690	04072
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į		. •	GN NE	9	# 7# E	4.75 GR	CRADIENT INTERVAL # -5.00/	M. = -5.0	8.00 5.00			
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4.98	20.230		STOTO		00000	00000	UNDCO	.07660	02750	.57710	37890	1.70540
4.93	27.22				00800	.0003	00040	0700	01700	Cerone.		1.61030
4.450	2.52			06880	0053D	-,0002	c6000°	.06040	00000	77310		1.51930
4.93			06700	-,08660	01190		50045	09090	Devos	00658		1.42440
7.88				-,10600	C6210*-	•	-,00090	0220	07760	06006		1.35660
	20.4		05121	11420	-,01410		0.000	00300	0270			1.25560
4. A			1.21830	12580	01530	.00050	-,00000	00000	CEPOO	•	06258.	1.17750
			1.3:430	13060	D184D	36000	02100	06400	00430	1,05040		1.13420
	26.67		1,41450	14850	-,01630	04000	00140	Crear.	00420	1,06690	-	1.05560
4.959	40.630	_	1.51110	15940	01749	62006	-,00000	06250	.00440	.64510		1.42510
7.93	30,460	•	1.02910	-,19419	51245	-	70000	67000	10000	.02861	1 .03631	11290*-
1 1 1	GRADIEM		.D4604	00475	-,00063		3	i I				

900 (20 738 90) (600762) DEVIR : PARAMETRIC DATA .000. 000. A. 199620 1.01540 1.01540 1.01510 1.02510 1.02550 1.0250 1.10250 1.10750 1.10750 BETA = AILROM = SPDBRK = COL -.00060 -.00410 -.00270 -.00270 -.09520 -.00660 -.01020 -.00770 -.00240 CRADIENT INTERVAL = -5.00/ 5.00 TABLE ATED SOURCE DATA - MSFC TLIT 574 NEPTC 574 (OA48) ORB 159 1.105970 1.110190 1.17551 1.26600 1.34220 1.41120 1.46320 1.167100 1.16710 1.06490 1.12990 1.09910 .NI COOT. 659 .NI COOO. .NI COOO. 9 37.160 39.230 41.160 30.970 28.880 30.960 33.040 24.84D 26.630 35.100 3 3 3 3 3 3 3 REPERENCE DATA .T. .. 0000 98.FT. 474.8000 IN. DATE 28 SEP 73

PACE

(R&7051) (17 SEP 75) 007700 007430 007430 007100 007100 007420 007420 007420 007420 007420 007420 .05000 .05300 .05300 .05600 .05600 .05600 .05630 .05630 .05530 ELENTR = PARAMETRIC DATA .05010 .04350 .04350 .04320 .03600 .03600 .03600 .02640 .02530 .04650 Q. .03240. .04090. .03350. .03350. .03000. .03490. .03490. .03400. .000. 000. 6.00 (0.00 (ALPHA = AILRON = SPOBRK = CA6 .03370 .03420 .03370 .03370 .03510 .03500 .03600 .03600 6.01 GRADIENT INTERVAL = -5.00/ 5.00 4.66 GRADIENT INTERVAL = -5.007 5.00 CA .07750 .07740 .07740 .07740 .07740 .07770 .07759 .07759 .07759 .077410 .077410 .077410 .075410 .00013 CA .09070 .09580 .09580 .09900 .09900 .09680 .09580 .09570 .09570 CBL .00240 .00250 .00240 .00150 .00150 .00130 .00130 .00140 .00447 CBL .00710 .00701 .00702 .00700 .00700 .00700 .00700 .00700 .00700 .00700 .00700 -.03510 -.03040 -.02600 -.01790 -.00170 -.00170 .01220 .02200 .02200 .03390 -.00250 CYN
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-.00630 TABULATED SOURCE DATA - MSFC TMT 574 MSFC 574 (OAAB) ORB 139 CY .24060 ...20130 ...19820 ...11150 ...11150 ...11150 ...11150 ...11150 ...11150 ...11150 ...13710 ...18210 ...18210 ...122358 .0000 1M. .00040 .00040 .00060 .01180 .01180 .012690 .01760 .01760 .01600 .01600 10.590 16.390 16.390 16.470 16.470 17.590 17.50 10.400 14.410 14.410 17.0000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.0000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.0000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.0000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.0000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.0000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.0000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.0000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.000 17.0 DATE 28 80 73

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DATE BE SEP 75 TABULATED SOURCE DATA - MSFC TAT 574

MSFC 574 (OA48) ORB 139

(Re7051) (17 SEP 73)

PARAMETRIC DATA

PACE 91

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XXEP = 836.YDCD IN.	.0000 IN.	COM IN.	
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RIN NO. 296/ D RIVL = 6.42 CRADIENT INTERVAL = -5.00/ 5.00

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			26.50	00500	01570	16290	06320	06990	16210	5
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		0000	Cres.	01690	06010	16630	06020	.09140	.167. 0	£.
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		04570	OC87C	-,50490	09500	.17110	.05540	.09410	.17020	. 55270
		00460	07900	02000	57000,	.17085	.05470	01560.	.16990	
		00380	08230.	02400	-,00210	.17300	.05760	.09230	3.7210	.53
		1287	07670	.91050	-,00590	.17320	.05930	.09045	.17240	. 52
		06200	12060	09910		5771.	.05950	.08470	17090	67.
		08100	-,16360	.02250	01310	.16940	05850.	.07950	.16870	4.
		09160	20255	02720	01530	.16750	.03900	.07110	.16589	.42
		00500	.00440	.00040	.00059	17040	C1460.	.09280	.16960	ž.
8	92000*- INC	.00024	02007	.00253	00158	.00039	.00026	00027	.00039	2

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8	03620	.03420	.03300	.03260	.03220	.03220	.03270	.03320	.03380	.03600	.03710	.03220	ACCOUNT
ర	13730	.14070	14390	.1444D	.14490	.14435	.14040	.14210	.14319	.14300	.14250	.14169	******
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			Ž	374 (Canada)				•	PARAMETRIC DATA	DATA	
	REPERENCE DATA	E DATA							Š		
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NO.	803	õ	5		09900	0000.	3000	02610	00130	0.000	
2.950	•	00	OCCUPATION OF	15060	06100	.00610	.10040	016910	oztoc.	09201	•
2.480		0.000		11460	00960 -	.00400	.10760	.01620	00000	10600	•
2.980		- 100	9	07820	02500	00330	.10680	09210.	02:00	09201	
2.990	•	9000		04430	00270	00200	.10760	08710.	96100	07701	•
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2.930		-,000	20.0	02610	.00200	00160	10790	.01780	06/00-	10770	
2.930		06000	CENTRAL .	06260	07500.	00320	.19760	.01760	Deco.	00204	
2.30		01100	DESCRIPTION OF	02660	36900	00470	20770	00810.	0.00.	0000	
2.980		01010	- X8040	•	.00820	-, 00590	.10610	.01820	01140		
2.990		09210*-			.00940	00700	.10690	.01820	- 01500	•	
2.990		0140	Decen.		١	00000	.10750	.01600	200-	•	
2.990		01600-	62000	•		-,00081	60000	-,00002	00126	.cent	
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4.858		OR 120.	De260			.00460	.08750	00470	-,016910	0.000	
4.93		01900		_	•	.00200	.08570	00470	-,02100		
4.95		-,02210	08340			.00150	.08440	.00460	05810		
4.99	١	01960	25000			-,00030	.06370	.00460	-,01669		
4.95		09810-	7,0337	•		00160	.08300	.00460	02720		
4.459		-,01890				00300	.08460	07100	-,02139		
1.959		-,02250	05660			-,00430	CC98C.	.00480	-,02550		
4.959		00220	03250	•		-,09570	.08820	07470	•		
4.939		03320	03190	•	•	00680	08680,	.00490	•		
4.959		-,03000	-,03230	•		-,00010	08220	.00480	01870		
4.959		0.01970	-,03560	_	•	2707	-,00018	-,00000	10000	00018	
	GRADIENT	20000	tocoo.	1		•					

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..240gn -.22530 -.19330 -.2490 -.21850 -.23303 -.23403 -.36160 -.36160 -.31960 -.22670

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041F 28 9EF 73	27	TABUL	TABULATED SOURCE DATA - MSFC TAT 574	DATA - MSF	7C TAT 574					PAGE	ŝ
			MSFC	MSFC 574 (OA49) ORB 139	2KB 139				(R87052)	2) (17 SEP 75	
									PARAMETRIC DATA	DATA	
	REFERENCE DATA	E DATA									٤
				AL WOOL SE				ALPHA =	10.000		
" ha			000	.N. 6000.					8	BOFLAP =	000
" '	474.8050 JH.		8.	.NI 0000				SPCBRK 11	386.980		
SCALE :	_										
		RUN NO.	D. 299/ D	EVL "	4.72 GRA	GRADIENT INTERVAL =	AL = -5.00/	2.00			
			;	8	3	Ē	ð	88	ರ	8	2
MAON	DETA	8	ð	5	- 09080	05710	.03740	.03800	. 56420	.13695	4.120
.396	•	.57930	02973	19545	00000-	01400	.03780	.03770	.55640	.13580	4.0953
.596		.57150	02670	DCS81.	2010	01140	04240	.03620	.54650	.13870	3.9376
. 596		. 56220	02270	01021.	0.0000	01600	04590	.03560	.53630	.14060	3.9216
. 598		.55450	02300	ceron.	0.800	200	04670	.03520	.53190	.14050	3.7845
. 198	•	.54810	01560	08030	Cream.	COLUMN TO SERVICE STATE OF THE	04600	.03419	.52360	.13640	3.7843
.596		.53960	01130	0.600.0	cono.	COOL -	0.510	.03400	.52140	13700	3,6059
P65.		.53720	01090	03600	cecia.	Cachar	000,70	.03439	. 52650	.13670	3.6505
.398		.54220	01280	07360	G6817G	00000	04260	03600	. 53300	.13660	3,9012
.398		.54860	01670	11470	.01420	0.000	09670	03960	.53830	.13750	3.9149
100		.55390	02030	15690	.01950	nentn-		0.670	53720		3.8933
6		35300	-,02190	-,19240	.02340	-,01270	04530	01110	32160		3.7591
		53770	00880	00200	.00130	06200	.04680	oreen.	98 100 1	•	5003
•	3	00175	¥6000°	01929	.0500	00153	-, 00028	- uch	8 TPO 1		
		2	0 /962 CN N.B	RN/L :	5.70 GRA	CRADIENT INTERVAL = -5.00/	/AL = -5.00	5.00			
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008	•	.60320	04740	.21390	01430	.01570	06080.	04130	00675		3.077
\$.60340	04410	.17920	01450	.01460	Delon.		CAGAC		2.997
	Ý	.59440	-,04060	.13630	01170	.51265	.06490	Coort.	2888		2.973
		.59160	03660	.09440	00960	.01030	. 1366.ru	Windle.	•		2.939
		.58190	03260	.04750	-,00339	.00710	.08670	orsen.			2.925
		.57470	-,02930	.00400	.00150	.00419	.08660	Death.			2.961
8.		.57870	02990	0.03970	.00450	0.500.	.06500	.03760			2.952
206.		28770	03400	Deden	.00910	06000*-	.08560	.03640			76.6
006.		09698	00400	12960	.01400	-,00390	.08660	.03649	.35760		
		06206.	17960	17735	.01840	-, 00590	.08450	08680.	. 56320		
006.		19796.	CHOCK!	C85.16	01940	00820	.06370	.0430			3.00
006.		06486	01240	COLOG	.00149	00000	.06650	.03770			26.2
006.		. 57490	06820	44.60	902061	00130	00012	-,00013	00122	200036	.00
	GRADIENT	00128	07000)) i					

4.20030 3.93760 3.93760 3.08160 3.76430 3.76430 3.90150 3.90150 3.90150 3.90150 3.90150

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DATE 20 957 73	و د	TABUL	TABULATED SOURCE DATA - MSFC TVT 574	DATA - MS	FC TMT 574					PACE	‡
			25.55	MSFC 574 (OA48) ORB 139	ORB 139				(487052)	(17 35 73	e C
	RETERBACE DATA	DATA							PARANETRIC DATA	DATA	
				;				M PHA	10.000	ELEVTR =	000
-	2690,0000 98.FT.		5.36.10	636.7000 IN.				~	000	BOSTAP =	000
- 2017	474,8005 IN.		e. :	.9000 IN.					066.666		
-	956.7000 IN.	2	n 6	.0000 IN.							
SCALE =	.0040										
		RUN NO.	0 /162 .0	# 7X#	6.01 GRAC	GRADIENT INTERVAL =	/AL = -5.00/	2.00			
		;	;	1	3	3	5	8	ರ	8	5
ğ	DETA	8	5	,		0.6810	1,7000	.06840	09099	02785.	2.22260
A :	-15.620	2	16260°-	146.0	01100	.01420	.17210	.06660	.65870	06962	2.20320
5	200	8	00000	01611	01600	00000	.17420	.06430	.66100	30170	2.19090
1.501			00000	07460	-,00540	01900	.17430	.06280	.65970	. 301 50	2.16760
1.70	-4.310	2	01760°	Capell	02250	00200	.17480	.06220	.66380	.30230	2.19590
1.20	-2.460	200	00160	1000	05200	06100	.17310	CT 190.	.67350	30310	2.2220
1.20	D.S	2017	00000	10457	05200	09000	.17530	.06410	.66650	.30440	2.19600
		. 71330	CESEO.	01.00		-,00320	17730	09490	.66540	30560	2.17610
1.231		06011	0000	00100	02510	06900*-	01671.	0690.	.65810	.30610	2.14970
102.1		. 70340	ninen-			0.140	GITTE .	.07150	.64967	30530	2,12750
1.201	7,930	.69460	08380	15760	טונים.	0.110	0000	08950	64970		2.15650
1.201	9.840	.69420	06700	18680	05110	0770	2001	00000	27.75		2.22570
1.201		.71780	09640	00450	.00200	.00200		0000	9000	*******	01100
	3	9900G*	00013	-,01913	76100.	00095	.00034	.0003	200	10000	
		RUN I	RUN NO. 176/ 0	RPVL	7.06 GRA	GRADIENT INTERVAL =	VAL = -5.00/	00.8 %		•	
			;	i	{	ŧ	3	3	d	6	\$
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1.960	•	.49330	09070	.19030	98123.	09600	13470	.03480	.43220	.21940	2.06090
1.980		48420	201130	CE COOC	5	01710	13520	.03410	.45590	09022	2.06490
1.960		48820	0/0/0-	CASAD.	19100	00430	.13600	.03220	.45380	.22120	2.05130
1.960		1000	00000	06460	08100	.00140	.13490	.03100	.45180	.21970	2.05640
1.960	7	46390	000/0'-	01010	20.00	- 10110	.13390	.03110	.44715	.21670	2,06350
1.960		. 17870	OLIVE'-	070707-	CRECO	03320	07551.	00220.	.43960	.21590	2.03560
1.960		47120	Caro	0474U	00800	COSCO -	.13660	08280.	.44670	.22040	2.02690
1.960		479.2	06670	00000	03.00	00000	1384	.93670	.45050	.22300	2.01970
1.960		48330	0.000		of tour	01110	0.01	.03860	.45260	.22460	2.91470
1.965	6.390	.48570	07590	14390	56000	00110-	20001	13877	45250	.22100	2.04710
1.960	10.370	.46490	07950	18310	02100	02410	3961.	C. C. C. C.	43110		2,05790
1.960	000	.46160	07600	01270	.00160	03140	01621.	96000	76100	•	90331
	CRADIENT	00130	71000	01561	, DOCO.	00122	LE. R. R. F.	07:3:1:			

DATE 28 SEP 73 TABULATED SOURCE DATA

REFERENCE DATA

TABULATED SOURCE DATA - MSFC TMT 574

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MSFC 574 (CA48) ORB 139

(K6705E) (17 SEP 73)

PARAMETRIC DATA

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ELEVTR :	BOTAP =		
10.000	8	33.3%	
ALPHA = 10.000	A1LRON =	SPORCE .	
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636.7000	WI GOOD. = 4984Y	0000	
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2090.000 98.FT.	LREF = 474.6939 IN.	936.7000 IN.	6700
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		N.S.	NO. 254/ 0	ž	4.11 GRA	RADIENT INTERVAL	A. = -3.00	3			
	. [i	;	3	3	ŧ	5	3	ರ	8	Š
ğ	DETA	5	5	;	;	;			-		-
	47.450	31160	05420	15500	00130	C 200.	8	01810	2002		
					00000	24.40	09840	0.000	29010	.14950	1.93940
2.990	-9.510	.31150		15000	1					0.67	E. 0.0
-	. A.	30730	09670"-	.09330	00130	00600	03960	02650	02002	77641.	
			04640	CACTAC	06000	06500	02660	01830	.26360	.14930	
. N	200	-			0000	COROL	01000	07610	28270	14900	1.00790
2,990	~2.410	30360	04460	03050		anena.					
	445		[44.80]	01100	05000	02000	00960	01830	.26130	.14760	
2.33				02000			08890	02610.	20000	.14790	1.09310
2.990 C66.N	1.000	onine.		300				2400	- TOY-	UU971	1.87630
2.990	3.740	30060	02520	05610	00000	00500	266	, K. P. C.			
8	A. 740	Decour.	04720	-,08870	.00230	-,00900	01660.	.01950	.20110	2487	1.89.20
		200	07670	07121	07.900	01110	06960.	.01930	.28160	.14620	1.90190
2	110.	3000					0000	04940	26310	.14660	1.90240
2.990	9.750	.30410	05210	15160	ימחקיים	oren	20000				
2,990	-,350	30100	04400	.00150	02000	03001	00960	0.0010	01002	30.00	2000
	GRADIENT	00053	61000.	01417	00004	00131	20000	10000	00031	9000	(302)

		RLN NO.	. 255/	0	RNYL =	4.95 GRA	RADIENT INTERN	INTERVAL = -5.00/	3.00			
	\$		2		t	Š	형		3	ರ	8	\$
			1		12760	08100	.01240		57700.	20460	.15550	1.77440
	3 1				5	00100	07010		.00490	06902*	.11420	1.00630
	Š				07690	OSCO.	00000		06700	20750	.11290	1.85720
	į (2		06690	00000	.00620		00800	20870	.11220	1.06050
			0605		02650	01100	.00330		00600	.20730	.11130	1.06230
	9	06022	06600		00100	06000	occca.	01410.	00490	01503.	.10960	1.e7070
	8		0407		05220	cocco.	00290		01500	.20710	10990	1.06350
	710		-,0409		04730	.0003	00470		00600	20300	.11069	1.05560
	2		0410		.07480	02000	02710		. 01500*	.19920	.11030	3.00400
			0427		.09640	00020	02600*-		02500	50002	.11150	1.40290
_			0401		.12330	00030	01110		.00830	.20045	.11290	1.77380
_	98		0423		07100.	09000	. 50040		.00520	.20490	.10960	1.66610
0	RADIENT		000		.01201	00002	00138		00000	-,00047	£2000°-	

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SATE 28 SEP 75	ē c	TABL	TABULATED SOURCE DATA - MSFC TAT 574	E DATA - HS	FC TMT 574					PAGE
			MSPC	HSFC 574 (OA48) ORB 139	ORB 139				(Re7053)	11 (17 90
		i							PARAMETRIC DATA	DATA
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	.M3 OCCT. 858			.0000 1N.			••	# X	2.4	
SCALE :	0900									
		2	RUN NO. 302/ 0	# 1/4	6.45 CR	GRADIENT INTERVAL * -5.00/ 5.00	W. * -9.00	8.8		
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Š		5	5	01481	03000	COCOO.	.19050	0.06870	1.10190	606 10
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1.196		1.552.1			0	03410	.16300	07270.	1.10000	.62490
1.196		1.28230			04.740	04000	.16690	.07400	1.10590	. 629 10
1.13		1.2000	2.001.			00300	10000	.07400	1.10660	.63120
1.196	•	1.26260	-13930	66.6		9	17130	03870.	1.10990	.63480
5.196		1.26710	14230	01000		-	2000	00220	1.10000	.63590
1.196		1.20640	14140	06670"-	0000			07.670	1.10440	.63460
1.196	3.830	1.26190	13960	06110	000e	neem.			200	.62760
1.136		1.25440	13790	10770	01120	01163	01601.	01900	07660	00220
10.196		1.25410	13095	14390	01490	01420	10450	.07460		
	•	1.24190	-,13280	18260	01680	-,02015	.16110	07270	1.tration	00:10
		1.26220	-,14280	C6910	.00300	.00030	17030	5 Co.	1.10960	06169.
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			12390	00661	02150	.01550	31700	,03630	64270	46090
		E 27	12340	07980	02120	09110.	.11760	.03700	. 83460	45900
		07.40	- 177	.05660	05020	.00660	.12470	06980.	.63590	. 47350
			-,12110	.02730	.01590	00200	.12640	.03620	. 648.60	.47410
1.340			12.20	.00310	.00990	01000.	.12619	03670	.65000	.47670
1.946	ľ		C. C	11960	00160	00160	.12950	.03650	.65050	.47730
1.946		2006	-112670		CKSCC -	0360	.12530	03620	.84040	.46940
1.946		06768	-15050	2000	C46.0	1220	00521	.03560	.63619	.46595
1.946		.95100	-11930	CBC90		0410	12220	02630	.84530	.46620
2.946	.360	.95660	12230	CC060	200		Carse	ONENO	0.04670	.46610
1.946	9.480	.96170	12440	13940	01760	00010	Carrier .	Casso	04780	46790
1.946	10.480	G9G96*	12380	16029	01670	0.5910	GENET!	COST C	00288	46790
1.946	000	07026.	-,12150	02030	.00139	00165	UCC21.	negen.	******	- 10112
	SAA	00177	.00022	01075	-,00341	00113	00045	9.525	4 5 7 7 7 7	

1.01190 1.79790 1.74590 1.74590 1.74590 1.74590 1.74590 1.74500 1.74500

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TABULATED SOURCE DATA - MSPC TUT 574

DATE 20 SEP 73

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BOTAP : EL EVIR

ALPHA :

#34,7000 1N. .9000 1N.

REPEREDICE DATA

(R&PD\$5) (17 SEP 75) PARAMETRIC DATA 20.900 .000. MSFC 574 (OA48) ORB 139

4.11 CRADIENT INTERVAL = -5.00/ 5.00 * 5 RUN ND. 243/ 0 2090,0000 98.FT. 474.6000 IN. 936.7000 IN. SECTION SECTIO

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4.95 GRADIENT INTERVAL = -5.00/ 5.00 # **5** NO. 242/ 0 6.2969.1 6.2 0 2011. 2011 A. 151370 251370 CA .00230 .00230 .00230 .00740 .00770 .00770 .00770 .00770 .00390 .01500 .01500 .01000 .01000 .00000 .00000 .00000 .00000 .01400 .00000 CYN

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DATE 28 MEP	1	TABLE	ATED SOURCE	TABULATED SOUNCE DATA - NSFC THE 574	FC TMT 574					794d	2
			HIST.	HEFC 574 (OA48) ORB 139	ORB 139				(867094)	4) (17 SCP	5
	NG COCK	CE DATA			·			•	PARAMETRIC DATA	DATA	
		ł		71. 000		:		APA =	30.000	GEVIR :	900
	2000.0000 SE			.2000 TM.				ATLRON =	600.	BOTLAF =	.
	936.7525 IN		. 6	.0000 IN.				SPCORK =	999,990		
SCALE :	3040										
		RUN NO.	0. 240/ 0	# 15# ·	4.12 GA	GADIENT INTERVAL *	/AL = -9.0	-5.007 \$.90			
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	•		11840	.10450	.01690	02220	01960.	00610.	.91280	5.659.	1.36390
		12.00	00121	02970.	91619	.00720	06580"	.01990	.91490	00000	1.30019
		07181-1	12300	00250	.01420	00110.	06760.	00030	.92130	.66330	1.36960
		1.13400	-,12410	ocean.	.01130	.0067D	.09360	01910.	.92400	C0799.	1.39190
		1,12630	0.521	00500	.00730	06200	00360.	01910.		.63640	1.39400
		1.13530	12519	01319	09100	06000*-	00680.	07610.	.92590	. 66 400	1.39370
		1.13450	12590	06060	-,00460	00330	02260	.01940	. 15250	26.290·	1.38580
2		1,13170	12550	05320	00000-	00739	.09160	.01940	.92310	· 66119	1.39630
2.80		1.12840	12360	07740	01140	51230	.09270	.01960	.91960	02099	7.39330
		1.12280	12220	10440	01360	01760	.09250	01910.	.91510	.65700	1.39260
6		1.11300	12020	12960	01660	02100	.09380	.01930	.90620	.65300	X 7 80
		1.13530	12370	01270	.97149	00110	01060.	04610.	.92530	6173	1.39350
	3	.00016	000	00974	00255	-,00165	-,00019	0000	.00025	-,0000	. 0003
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	,	1.02220	10270	00000	09610	.01760	.09960	00440	.83630	. 59430	1.40710
4.53	_	1.0000	10440	04290	.01210	.01435	02990*	.no430	. 64010	. 59610	1.40930
7		1.06785	10440	.04290	00040	01040	00990.	09700	.84230	. 35490	1.41990
4.95		1.03250	10260	.05350	.00660	0.000	.06210	02420	. 64620	08886	1.42621
4.9	_	1.03500	10510	.00430	00400	09200	.06360	07.70°	. 64990		1.42440
	_	1,03260	10040	01119	06000	0.000	.08220	.00460	. 64630	. 99490	1.42770
4.0		1,03270	10360	06620*-	00390	:00420	00230	.00490	23.	95410	06927
4.93		1.03410	50460	-,04890	06600	00610	06790	06700	07676		1.42610
4.93		1.02900	19400	06630	00670	01190	08390	.00 46 0	. e4490	_	1.42250
4.959		1.08290	19460	06850	01220	01550	.06460	.00485	. 63900	38186	1.41670
4.95		1.01440	102.30	10590	51575	01623	.06349	.00490	. 831 90		1.43470
4.959		1.03080	10220	91110	07000	-,00050	.0e160	00800	.64720		1.42920
	3	10000	00013	:00681	00161	59185	00000*-	SUUCO.	90000	10000°	(10000)

TANKATED SCARCE DATA - MSFC TAT 574 DATE 28 957 73

(Re7055) (17 BCP 75 :

8. §

ELEVIR :

MUFC 574 (OA48) ORB 139

PARANETRIC DATA

REFERENCE DATA

000.04 000. ALPIA = ATURON = SPORK = 636,7000 1N. .0009 1K. 2690,0000 30,FT. 474,6000 IN. 636,7000 IN. BECALE :

RISH NO. 247/ 0 RW/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

\$	1.02230	1.06440	1.0000	1.03290	1.03240	1.03200	1.09490	1.03370	1.03340	1.02230	3.0000	1.03310	.000e4
8	1.05840	1.04540	1.03170	1.05130	1.05400	1.05190	1.09000	1.04630	1.04280	1.05540	1.02710	1.09060	COD49
d	1.06160	1.07090	1.08200	1.08590	1.06530	1.00630	1.0660	1.06370	1.07770	1,06090	1.05010	1.06570	000
3	.00419	02700	.00430	.00490	00400	00490	06900	.02M30	CCPOU.	.00440	.00440	OC100.	00000
5	09560	06760	.08230	09660	06690*	C#880.	OETED,	09940	CASSO.	.00000	06690*	.06910	00020
룡	03610.	.01590	.01290	. 0De30	03000	. 20030	-,00360	00750	01130	01519	01610	02/00	00190
N.C.	00310.	01560	.01170	GZ#00*	.00470	.00199	00360	90760	01100	014¢0	01840	09260	00206
Շ	.06530	06876	09000	C621G*	03320	D1673	03290	04910		06390	02660*-	01745	00760
ð	13230	15790	16060	16200	16290	-,19990	16290	16090	15690	15490	14940	19990	01000
8	1.48600	1.49340	1.50610	1.50850	1.51240	1.50960	1.30040	1.90520	3,49700	1.48580	1.47190	1.90830	00051
BETA	-10.400	4.40	-6.440	4.400	-6.380	Xeo	1.80 C	3.670	3.730	5.73	9.000	.340	GRADIENT
Ž.	4.93	4.959	4.93	4.939	4.999	4.93	4.93	4.93	4.130	4.93	4.959	4.939	

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27 52 52 517	2	TABLE	ATED SOURCE	TABULATED SOURCE DATA - MOFC TAF 574	E 11/1 574					PACE	061
			7	HEFC 574 (OA48) CRB 139	R6 139				(Re7056)	(17 36 73	- E
			•						ATAC STREET	2740	
	REPERENCE DATA	DATA							7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>.</u>	
1		•	* A34.70	AND DOOR IN.					906	ELEVTR :	980:
	474-8000 TH.		8	.0000 IN.					86.	BCFLAF =	20.00
3 5	934.7050 IN.	246	¥.	.0000 IN.				n Kara	366.666		
SCALE =	0960*										
		RUM NO.	δ. 9.0	# 1/4 #	4.97 CRAD	CAADIENT INTERVAL =	M = -5.00/	3.00			
				i	į	ŧ	5	3	4	8	\$
¥C#	ACM	5	ð	5	24.5		02720	.03630	02090	00000	.94590
8	350	0	-,00760		2000		C2190.	05470	1.15300	09 LO.	16.11960
ġ		1.15440	05550	- 1000 C		06300	02080	.03519	.25500	.07630	3.33960
į		23.62	0000-		CE YOU	06100	.05120	ersso.	.37100	07880.	4.16230
ğ		3700		0.00	06200	06200	07440.	.03480	.47570	11050	4.30490
ě				06010	02100	00200	00850.	088C*	. 56030	3419	3.63.0
		ocerc.		00730	05000	00000	0.05670	08780.	.0000		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8	_		0.000	01460	00000	.01270	.05350.	Cache.	76665	C0672	2.0.5
			6	91430	00000	05010.	05250.	.04410	. E175	. 31 680	K419'2
	_		01000-	01930	C6100.	.00550	.05150	oauso.	1.00140	36630	2.37470
	e soied	-,9286	09100	THING.	71000.	\$0000	00143	00195	04362	.000	
		1			6.25 CRA	6.25 GRADIENT INTERVAL = -5.007 5.00	/AL = -5.00	37 5.00			
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•		08909	04370	00099	Cettor.	20100	05000	0000	2000		0.96620
		30100	05630	-,01240	06200.	.00030	08260*	00000		200	2,91470
8	•	.62230	07220	01330	.00210	.00200	06760	06000			2.72880
		.77120	-,10160	02150	,00330	.00590	oraci.	06680	Carrie .		2.55440
		01569.	11300	01610	.00130	07500.	10440	ornea.			2.33660
		1.02560	12960	01460	09000	O91GO	06231	09720.			2.13240
		07611.1	13150	01630	.00140	00000	.11650	08740			1.94615
		1.100.00	-, 10620	01500	-,00010	0220	12500	00//E	26.50	Control	45304
		.05540	-,00520	00152	.00049	\$0000	21100.	0.034		•	

TABULATED BOURCE DATA - MSFC TUT 3T4

HSFC 574 (OA48) ORB 139

PARAMETRIC DATA

ELEVIR :

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REFERENCE DATA

BETA ... AlLBON : SPORK :: 2000,0000 94,FT. 474,0000 1N. 936,7000 1N. SALE SCALE

GRADIEST INTERVAL = -5.00/ 5.00 2 9 **CH NO.** 7.4620 1.32410 1.74730 1.9930 2.19940 2.19940 2.19940 1.94690 1.63820 1.7390 2.13930 2.13930 2.13930 2.13930 2.13930 2.13930 2.13930 2.13930 2.13930 2.13930 .00190 .00190 .00190 .00200 .00200 .00200 .00200 .00200 .00300 .00300 -.09000 -.09640 -.0910 -.09710 -.19910 -.19910 -.1670 -.17440 -.117440 0442. 13760. 2860. 2860. 2860. 21500. 1.1000. 1.20220. 1.20220. 1.20220. 1.20220. 1.20220. 1.630 4.020 6.210 6.430 10.680 12.920 15.150

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DATE 26 BEP 75 TABLEATED SOURCE DATA - MSFC TAT 374

MSFC 574 (OA48) ORB 139

PARAMETRIC DATA

PAGE 102

) ASM

MET : 2000.000 30.FT. 3000 ELEVTR : .000 LEFT : 474.000 1N. YHRF : .0000 1N. YHRF : .0000 1N. SFDERK : 999.990 MET : 936.7000 1N. ZMIP : .0000 1N. KALE : .0000
1000 ### ### ####
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996,7000 1N. 798P 396,7000 1N. 278P 3
996,7000 1N. 798P 396,7000 1N. 278P 3
996,7000 1N. 798P 396,7000 1N. 278P 3
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996,7000 1N. 798P 396,7000 1N. 278P 3

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		SCN :	RUN NO. 2/ 0	* 78	4.10 CRAC	RADIEST INTERVAL	AL = -5.00/	3.			
				į	į	ŧ	t	3	đ	8	5
Į.	ACTA	8	ð	t	45	\$, !	-	DAS-000	10960	02670
	510	07700	03210	09000	06000.	-,000	COEDI.	5			
			05530	-,00230	00000	-,00010	.10900	0 2 2 3	02850	11000	
2					6	G7000-	20700	05010	.10930	11390	
¥.9	3.900	.1160		21000				04870	09691	3121.	1.39410
2.990	5.980	cacer.	0000	000	2000	- com				08781	07760.1
	7.630	.24570	05025	00400	00000	00040	2001.	oraro.			
			COLUMN	00410	09000	-,00030	.10200	06610.	2763.	13461	
×.	. 750		2000			- man	02231	G661G.	39990		8.00350
264.3	11.600	0000	04400	- 0000				0.00	G1727	C3012.	2.01720
2,990	13,630	.46210	07290	00610	02100	-	21361		40000	24670	0.2000.3
0.00	15.970	.54090	Ceseu"-	00900-	06000	-,00040	orror.	orașo.			
	16,030	.61920	-,09090	-,00830	07000.		.10130	crete.	. 55740		
	000,000	00669	-,10000	01600	07000.	-,00030	.10150	0.010.	00220		
	GLADIDIT	.02783	00163	00092	00000	-,00005	-,00070	\$1000	.06591	coton.	1000

62. 0.005.	1.16300	1,85410 2,01850 2,07800	2.06420	1.92650
00 .04480 .065390	.08840. 08840.	11170	.18690	.26830
0. 02390 .01670	.19460 .15430	.26340	.45270	. 51 700
CA6 .07360 .00420	.00440	.00450	00460	.00460
CA .09400 .04310	00000. 07600. 07670.	.07490	.07630	.07870
	04000:-		05000	20000
.00090	. 00120 01100. 01100.	.00090	09000.	92100.
CY 00130 .00090	08000	00220	00340	-,00560
CLN 05560	03920-	04830	06590	07300 07930 50015
•	06211.			
A-7-4 058	3.2	9.550	15.600	17.715 19.660 GRADIENT
0 6	6 6		4.939	4.939

O/ 0 RIVL = 5.50 GRADIENT INTERVAL = -5.00/ 5.00

EN NO.

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(R&TUST) (17 SEP 73)

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The second secon

MSFC 574 (OA48) ORB 139

PARAIETRIC DATA	BETA = .000 ELEVTR = .000 AILRON = .000 BGFLAP = 13.750 SPDSRK = 999.990
	= 836,7700 IN. = 0000 IN. = 10000 IN.
	THE P
PEFENENCE DATA	2000,0000 30.FT. 474.8000 IN. 836.7005 IN.

ξ	A 200	ð	X	Ծ	ě	Ŕ	ð	9 Y	ರ	8	S
	S		- 10040	00010-	GCCCC.	08000	10300	.01860	.62560	.34525	1.61210
		78700	11190	91980	02000	0,0000	.10260	.01650	.68700	.39740	1.72890
	24.660	022720	12140	01130	00000	C40000-	.10370	.01840	.75360	.46030	1.63730
	26.780	96720	0.13070	51260	01000	-, 20060	.19459	06910	.81650	.52880	1.54390
8	23.850	1.06110	14230	01449	00000	99119	.19480	00610.	.87883	.60390	1.45500
	028	1.15640	15270	01530	61106.	90149	.19559	60610.	.93720	.68560	1.36700
•	33,000	1.25430	16373	51649	00000	90139	.10590	.01930	.99300	.77350	1.26370
\$	35.140	1.35020	17560	00610	02100.	-,00160	.19630	01930	1.04280	.86420	1.20670
9	37.285	1.44970	-18795	51850	.00100	00190	.10680	.01930	1.98879	.96320	1.13030
\$	39.350	1.54820	02102	02230	02200	90249	.15755	02610.	1.12880	1.06590	1.05990
8	41.350	1.64260	07012	02140	00200	00190	07701.	02610.	1.16185	1,16620	.99620
8	26.5	1.16219	15220	01550	01100	00150	.10530	01610.	.94390	.66950	1.36890
}	THE ACT FOR	74528	FF800 -	- (27)61	01000	00010	.00025	10000	.02621	57650.	03972

ğ	AFA	5	ð	Շ	Š	Ę	ð	3	Ь	8	5
	20.250	.56350	07690	-,00630	06000	09050	.06200	06800	.51910	.27890	1.86090
•	22.210	02299	08650	-,00060	.00030	50035	.06360	01100	.56145	.32780	1.77340
966	24.270	75270	07560	00600-	09000	00000	.08610	.00400	.65080	.36600	1.67740
	26.300	.64350	19500	-,01000	00000	00010	.08840	00700	.71690	.45300	1.56240
	28.360	03950	12020	01120	00030	00000	01060*	.00410	.78390	. 12560	1.49130
95	8.40	1.03630	-,12810	-,01230	61000	50185	07260.	.00430	.84820	00909	1.39940
•	25.68	1.13700	14260	01550	09060	-,00000	.09500	.00430	.90790	00169.	1.31370
ş	34.530	1.23390	15460	01730	02100	00110	00760.	00700	.96140	.77950	1.23340
	36.630	1.33450	-17000	01850	01100	-,00160	.10000	.00420	1.01120	.67650	1.15360
	34.660	1.45210	-,18320	-, 51850	00130	-,90149	.10330	.00400	1.06690	.98820	1,96170
	40.620	1.53160	-,19360	01680	00000	00130	.10440	.00410	1.09440	1.07660	1.01650
	30.440	1.54495	13120	01320	00010	00039	06260.	.00439	.65380	.60950	1.40070
	GRADIENT	£175G.	99564	00056	50000	00007	.00113	10000	.02893	.03955	04186

RICH NO. 253/ D RIVIL = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

(R87058) (17 SEP 73)

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MSFC 574 (OA48) ORB 139

FARAMETRIC DATA

	.14.250
<u>.</u>	ELEVTR = BOFLAP =
FAKAREINIS ONIN	060° 066°666
	BETA = AILRON = SPDBRK =
	YMR = 636,7505 IN. YMR = .0000 IN. ZMP = .0000 IN.
	H 44 H
	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
REFERENCE DATA	SAEF = 2000.0000 90.FT. LAEF = 474.0000 IN. BAEF = 930.7000 IN. 9CALE = .0040
	H H H H
	SAEV USEV SCALE

	L/D .27030 .02440 1.29350 1.69060 1.99470 2.03560 2.04620 1.99020 1.91670 2.03550
	.14140 .14390 .15250 .15250 .15970 .251970 .251970 .39260 .39260 .39260 .39260
	CL .03620 .11670 .19730 .28740 .44450 .52020 .56550 .67260 .73110 .82940
2.90	CAB .03130 .03100 .03100 .03200 .03200 .03200 .03500 .03500 .03500 .03500 .03500 .03500 .03500
INTERVAL = -5.00/	CA .14160 .14040 .13910 .13890 .13880 .13880 .13880 .12880 .12880 .12850 .12850 .12850 .13250
GRADIENT INTERN	CBL0003000060000600006000050000500005000050000500005000050000500005000050
7,15 GRA	CYN .00090 .00120 .00110 .00110 .00110 .00130 .00130 .00140 .00140
RNT.	
9/ 9	00890 00810 00310 03620 05620 07380 07380 08700 09560 10480 10480
RUN NO.	CN
	ALPHA400 1.690 3.810 6.010 8.190 12.590 14.660 16.920 19.100 21.210

L/D	16162.
.10860 .11800 .11800 .12830 .14640 .19650 .23180 .27130	. 0000
CL 00960 .0440 .0410 .16100 .21300 .27630 .33990 .46800 .53290 .53290 .53280	.02626
CAB .01770 .01790 .01790 .01880 .01880 .01890 .01890 .01880	.00010
CA .10850 .10701 .10470 .10470 .09580 .09580 .09500 .09300 .09220	-, 50095
Cet	-, 00000
CYN 00010 00020 00020 00020 00030 00040 00170 00170 00170 00170 00170 00170 00170 00170 00030	.0000
	00062
04 .04420 .04420 .17170 .27630 .29070 .31370 .59070 .67350	
ALP4A320 1.450 3.490 5.990 7.630 9.720 11.810 13.870	
M. C.	•

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RN/L = 4.15 GRADIENT INTERVAL = -5.00/ 5.00

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RUN NO.

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(R87558) (17 SEP 75)

PARAMETRIC DATA

REPERENCE DATA

1380	*	SREF = 2690,0000 54.FT.	9	*	636,7000 in.	BETA =	000.	ELEVTR = BOFLAP =	.000
5		474,8000 IN.	YMIP	Ħ	.nl goog.	* TOWNER **	000,000	1	
- DWG	н	936.7000 IN.	ZHRP	"	.NI COOG.	3			
SCALE =	H	.0540							

	3		2						
ALPHA520 1.420 5.440 5.450 7.490 11.590 11.600 11.7710 11.7710		 	CYN . 00110 . 00110 . 00100 . 00120 . 00120 . 00120 . 00000 . 00000 . 00000 . 00010	00035 00035 00036 00036 00030 00030 00030 00030 00030	CA .06430 .06430 .06200 .07530 .07530 .07530 .07530 .07520 .07520 .07520 .07520 .07520 .07520 .07520 .07520 .07520	CAB .00380 .00400 .00410 .00410 .00410 .00430 .00440 .00440 .00430	CL 02920 .00990 .04975 .19480 .19480 .25310 .30840 .37100 .43300	.08460 .08220 .08230 .08590 .09500 .10720 .12670 .18030 .21600 .25410	L/024390 .12120 .60400 1.10040 1.52330 1.99680 2.06620 2.05770 2.03380 1.93340 1.93340

(Z87058) (08 SCP 73)

CP 73)		.0KG -14.29n
(Z87058) (ne scr 75	DATA	.000 ELEVTR = .000 BC=LAP =990
(26705)	PARAMETRIC DATA	000° 000° 000°
		BETA = ALLRON = SPEBAK =
MSFC 574 (0448) ORB 139		
MSFC 57		.N1 0000
		11 M EI
	2	* * * * * * * * * * * * * * * * * * *
	REPERBACE DATA	SO.FT. XMRP IN. YMRP IN. ZMRP
	101	SALE = 2460.0000 SALE = 236.0000 SALE = 236.000 SAL
		SANG :

5	RUN ND. 97 9	6	12kg 	4.80 GR	GRADIENT INTERVAL = -5.00/	TVAL = -5.C	5.00	
MACH	AF24		3	ž	Շ	N.	퓽	ಕ
966	440		00000	04070	.00230	02000	OTTO:	90790
9	1.540		.08630	03730	-, 50040	naccon.	.00200	.08670
200	3.610		39040	03300	00150	06000	.00200	.18650
966	5.700		23870	.02630	00550	01100	.00250	.29250
6	7.800		.41200	C7710.	01150	00200	.00240	.40285
9	005.6		.50285	.02030	01180	.90160	.00270	.48680
6	11.990		.59820	.00430	01110	.00150	.00030	.57470
46	14,090		.71370	00430	-,01920	COSCO.	.01080	.66090
3	16.22		.82770	00800	01529	00100	.00940	.78210
866	18.355		.94873	07700.	01760	.00190	06000	.88680
40	8		03780	.01490	01830	06200	COCKO.	.95700
\$	006.6		.4954°	.01270	00880	.00170	.00240	.47970
	CRADIENT		.04906	00190	00094	.00012	. (20,002	.04800

	ALPHA	3	ş		Š	ਵ	ರ
	410		J. 6970		CKCCC.	0,000	00200
	1.680		21020.		.00119	00120	.13120
	3,810		.02380		.00150	-,000020	.23170
	5,950		OK 610.		UT 100.	06000"-	.32360
	8,070		.00548		.00260	or 100.	.40130
	10.260		0\$600°-		00200	.00360	. 51430
	12.450		03180		00360	. നാടക	.64300
	14.660		04630		.00210	CBSCM.	.75640
	16.839		04510		czucu.	COSCO.	.85090
	18.960		03900		08000	02000	.90480
	20,960		-,01049		00170	-,00019	.93100
668	10.270	.54910	01110	01380	, 00200	.000.70	. 52450
	RADIENT		00613		91000.	-,00014	.05554

CATE 28 SEP 73

TABULATED SOURCE DATA - MSFC TAT 574

PACE 107

(Ze7058) (06 SEP 75)

REPERENCE DATA

HSFC 574 (OA48) ORB 139

.NI 0000. .NI 0000. X T Y X Y X Y X Y 2690.0000 SQ.FT. 474.8000 IN. 958.7000 IN.

SECT :

PARAMETRIC DATA

ELEVTR = BOPLAP = 066.666 BETA = Aflron = SPOBPR =

.4.250

6.53 GRACIENT INTERVAL = -5.00/ 5.00 D/ D RINT = RUN NO.

. 20010 . - 20110 . - 20110 . - 20110 . - 201000 . - 201 CYN

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- 001100

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- 00200

- 00200

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- 00200

- 00200 .00140 .00140 .00070 .00280 .00440 -.01920 -.01240 -.01300 -.02460 -.02060 -.01000 -.04570 -.05660 -.06070 -.09930 -.11790 -.11977 -.08130 ALM .01120 -.01300 -.03340 -. 11019 -.11630 CN .09600 .22510 .34730 .45820 .70860 .83600 .94840 1.14990 1.14990 1.24140 .71310 4.036 4.036 6.220 6.420 10.660 12.900 19.460 21.550 10.690 GRADIONT 15.120

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DATE ES SEP TO	¥ t	TABUL	TABULATED SOURCE DATA - HSFC TUT 374	: DATA - MSI	FC TUT 574						<u>.</u>
			MSFC	HSFC 574 (OA48) ORB 139	ORB 139				(R67059)	9) (17 SEP 73	- E
								_	PARAMETRIC DATA	DATA	
	REFERENCE DATA	E DATA		-						•	{
		3	¥	NI COCK AND			-	BETA =	300		200.
	2000.0500 Se.	<u>:</u>	. "	.N1 0000			 '		000	BOFLAF #	14.630
. #	936.7000 1N.			.DOCO TM.			•	SPCBAR =	066.666		
SCALE :	. 2040										
		RAN NO.	NO. 227/ 0	RAVL =	4.12 CRAD	CRADIENT INTERVAL =	/VF = -8.00/	2.00			
				i	į	ŧ	đ	3	ರ	8	2
TO N	AFFIA	5	5	ر د	CAR .	- 1005	06260.	01030	.60100	35:30	1.65170
R.990	20°02	.67660	06560	-, coto	01000	0000	CT 180.	02010.	.66300	.37530	1.76630
8.90 0	22.600	75640	01 KO	00100-		06000	06260	.01620	.72760	.43690	1.66550
2.990	24.000		06840.	1919	01000	08000	.09230	.01640	79040	. \$0200	1.57440
2.85 2.85	26.750	35166	00000	0.400	00000	06000*-	09160	.01840	.84930	.57265	1.46350
2.990	28.83	1.0000	CECOLO -	0.01490	07000	00130	.09240	.01650	.90720	.65230	1.39070
	90.970	1.11360	0.001	00010	05000	00110	07060.	00610*	.96370	.73640	1.50870
2.990	33.090	0000	- 11840	01830	COCCC.	00160	.09030	.01950	1.01150	05229	1.229.0
2.990	35.140		12810	01860	02000	-,00190	08680.	C9610.	1.05620	.91620	06261.1
Z.990	20.75	20000	1690	02130	.00140	00230	.06850	m610.	1,09950	1.01600	0/19:1
E. 990	29.300	1.4860	14867	02190	.90140	00180	.08760	03610.	1.13320	1.1.4.1	1,17,710
2.50	41.350	000001		01460	05000	00110	C1160.	.01870	.91270	.65430	1.19500
2.980 2.980	50.970 Fig. 60.67	1.11930	-,00394	C9000	90000	60000	00022	60000	.02593	.03616	-,04057
						a lavernur proposes	VAI = -5.00/	5.00			
		RCN.	RUN NO. 226/ 0	# 12M21 #	4.96 GRA	DIEN INIE					
		į	;	ł	Ž	ŧ	5	3	Ч	8	۲/۵
Ž	454	8		,		02120	.07660	06500	. 50110	.26650	1.66030
4.93	20.240	.56240	0000		Cauco	00119	06940.	07500.	. 56480	•	1.79960
4.939	22.210	06130	06960		0000	00100	01910	06500*	.62910	,36940	1.70500
4.93	24.270	.72540	- 04040		0,000	moed	.07890	.00380	UZZ69'		1.60690
4.959	26.300	12116.	07660	04140	0.0000	-,00100	.07920	00400	.75645		1.51760
4.458	28.350	06206	00000	01610	01000	-,00110	. nenen	.00419	.81810		1.42370
4.959	30.430	. 99640	D0001-	0.00	DC:SU	00130	06210	.00420	.87681	.65381)	1.33690
4.959	32.490	1.09190	06260*-	-,01450	Cachan	07100	08280	00330	.93070		1.25640
4.959	34.530	1.18670	10070	04010-	COCCO.	10001	08320	.00420	.9798	.8322!)	1,17730
4.959	36.635	1.26260	11140	67/16*-	neron.	06100	.08420	.00430	1.02610		1.10430
4.959	36.670	1.36170	12150	0.0101.	00000	06100	.98519	00400	1.06220	-	1,03790
4.959	40.620	1.47260	Jeps1	- 01900	COOCH	00100	.98140	.00420	.82450		1,42390
4.959	30.445	1.00430	0.6490	CONTRACT.	10000	-,00003	.00043	50000.	\$6720.	58750. 8	04195
	GRACIENT	.04492	8/C(3)*-	1	* * * * * * * * * * * * * * * * * * * *						

DATE

TABULATED SOURCE DATA - MSFC TMT 574

HSFC 574 (OA48) ORB 139

(R87060) (17 SEP 73

ELEVAR : PARAMETRIC DATA 000. 000. BETA = ATLACN = SPUBRK = .NI 0000. .NI 0000. X T X REPERENCE DATA 2000,0000 00,FT. 474,0000 IN. 936,7000 IN.

-5.00/ 5.00 CRADIENT INTERVAL RUN NO. 276/ 0 4.594620 4.592620 4.52240 4.12270 5.35250 5.35260 5.35260 5.35260 5.35260 5.35260 5.35260 .10720 .11670 .11870 .11880 .11880 .30640 .30640 .31120 .37680 .37680 48340 .50340 .50340 .69340 .69340 .65290 .63290 .1,13630 .1,13630 .1,13630 .1,13630 .1,13630 .1,13630 CAS ... 04020 ... 03070 ... 03070 ... 030740 ... 033740 ... 044370 ... 044370 ... 044370 ... 044370 ... 046370 ... 055670 .10867 .10877 .08770 .08770 .108670 .108670 .108670 .108670 .108670 .108670 .108670 .108670 .108670 08.00 .00260 .00260 .00260 .00260 .00360 .00360 .00360 .00360 .00360 .00360 . 42300 . 50860 . 50860 . 64080 . 94390 1. 19290 1. 13450 1. 138950 1. 138950 1.750 1.750 3.810 5.800 6.010 20.0800 12.190 14.290 16.409 18.470

6.23 GRADIENT INTERVAL = -5.00/ 5.00 NO. 277/ 0 2,03210 3,03210 3,50220 3,25380 3,01260 2,37630 2,37630 1,95630 1,1092 1,1092 ..12670 ..14700 .17440 .21310 .21310 .315720 .36630 .45740 .45740 .45740 .37260 .37260 .37260 .37260 .39040 .39040 .90780 .91110 .77510 .99600 .112800 .113230 .113600 .113600 .113600 .113600 04530
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MSFC 574 (ON48) (RB 139

(R87060) (17 SEP 75)

PARAMETRIC DATA

PAGE 110

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TABULATED SOURCE DATA - MSFC TUT ST4

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MSFC 574 (OA48) ORB 139

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(R87060) (17 SEP 73)

PARAMETRIC DATA

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35.110 1.3797026550019700020 35.140 1.4629026650019700020 35.140 1.4520 1.59610306000219700021 35.440 1.85750347500213000234 31.430 1.85750284700213000234 31.430 1.8535028470021760001760 22.2500217600017600020 22.250062001360000760001760 22.2500620013600001760001760 22.250 1.0623013600001760001760001760 22.250 1.662002260001700001760			2	25140	01700	deco.	-,00120	.15360	09610.	1.01570	. 16990	1.2956
35.160 1.462502053001973 .0013 39.410 1.725303479002340 .0023 41.430 1.857303479002340 .0023 31.030 1.263302329002340 .0013 31.030 1.263302329001790 .0013 21.030 1.263302229001790 .0013 22.220 1.023900234300340 .0013 22.220 1.0239013730000760 .0013 22.220 1.0229013730001390 .0013 22.240 1.262902220001390 .0013 22.340 1.262902279001390 .0013 22.340 1.352402729001390 .0013 22.340 1.352402729001390 .0013 22.340 1.362902279001390 .0013 22.340 1.362902279001390 .0013 24.340 1.362402279001390 .0013 24.340 1.362403272901390 .0013 24.350 1.3623103274001390 .0013			2	26719	-,01780	09000	00000	.15745	.02010	1.06960		1.2077
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20.280 -081001560000780 -00110 22.230 -7833011719000780 -00110 28.270 -86370117190010340 -00110 28.380 1.082302260001280 -00110 30.440 1.168202260001280 -001120 34.540 1.273902272901330 -00110 34.580 1.374802729001300 -00110 34.580 1.362302729001300 -00130 36.680 1.362002729001300 -00130 36.680 1.362002729001300 -00130 36.680 1.362002729001300 -00130 36.680 1.362002729001300 -00130			2	5. 21 0/ 0			DIENT INTER	/AL = -5.00/	5.00			
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38,340 1,2736 -,23780 -,01580 ,00110 34,560 1,37460 -,27250 -,01703 ,00150 36,660 1,46060 -,29750 -,01800 ,00150 36,690 1,56240 -,30750 -,01680 ,00130 40,590 1,56310 -,28460 -,01680 ,00030 30,490 1,1900 -,28460 -,01300 ,00030			8	24110	01330	0,000.	00090	.14150	.00590	.93510	. 1120	1.3093
34.360 1.374602725001703 .00190 36.660 1.460802905001900 .00190 36.990 1.962403073001620 .00130 40.590 1.663103246001660 .00060 30.460 1.171602469001390 .00090			980	25760	01500	01100	00120	.14640	.00500	99470	. 80650	3.2302
36.660 1.460602073001900 .00130 36.660 1.962403073001620 .00130 40.590 1.563103246001660 .00060 30.480 1.171402469001330 .00030			9	27250	01700	06100	00160	.15190	00900	1.04370	.90490	1.1556
36.990 1.982403073001820 .00130 20.590 1.683103246001860 .00060 30.480 1.171602409001330 .00030 30.00030			8	29050	01900	.00190	00140	.15590	.00590	1.09460	1.00910	1.0046
30,460 1,17160 -,2460 -,01860 ,00060 so,460 1,17160 -,24690 -,01350 ,00030 so,460 so,4			240	30730	01620	.00130	00190	.16100	.00590	1.13420	1.11500	2,10.1
30.460 1.171802409001330 .00030		•	310	32460	-,01690	09000	00170	.16530	.00500	1.16910	-	2968
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tono tono tono team.			156	00619	00061	10000	00005	.03250	.00003	.02847	. DE354	0000

1.0250 1.53630 1.53630 1.43240 1.26760 1.26760 1.13390 1.13390 1.13390 1.16430 1.26430 1.26430

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1.74590 1.65530 1.56730 1.39420 1.39420 1.29620 1.29620 1.01720 3.91720 3.9130

IE 20 SEP 75 TABULATED SOURCE DATA - MSPC TUT 574

MSFC 574 (OA48) ORB 139

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(Re7062) (1

PARAMETRIC DATA

996. DETA ALLRON S .0000 1N. .0000 1N.

RUN NO. 287/ D NN/L = 4.65 GRADIENT INTERVAL = -5.00/ 5.00

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RUN NO. 206/ 0 RN/L = 5.77 GRADIENT INTERVAL = -5.00/ 5.00

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			1	HSFC 574 (OA48) ORB 139	ORB 139				(R87062)	ET 3EF 73	E E
		CE DATA						-	PARAMETRIC DATA	DATA	
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	22.280	00609	-,05610	06210*-	.00230	00000	19750	.07125	62839		1.04830
	26.75	02608	07220	01480	06100	CCCCO.	.19370	. 5727C	5157	00000	Const.
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		3	RUN NO. 186/ 0	0 RVL =	7.21 GRA	GRADIENT INTERVAL =	VAL = -5.00/	00.5			
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2.945		24.50	03510	00900	07000.	-, 00030	13690	.03270	.46260	.24270	1.90530
2	26.31	95.05	-,04000	06900-	01100	-, 50040	.13240	.03550	.52940	27480	1.92600
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		22.0	05440	06600	01100.	02050	.12950	08780.	.69370	.3766.	1.04170
		2	02190	01120	.00130	00070	.12670	.03670	.76720		
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TABULATED SOURCE DATA - NOFC TAT 574 DATE 28 SEP 73

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HSFC 574 (OA48) ORB 139

(R87562) (17 SCF 73)

PAGE 115

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960.03-ELEVTR = BOFLAP = PARAMETRIC DATA 000. 000. 099.999 BETA = ATLRON = SPDBRK = .N1 0000. .N1 0000. REFERENCE DATA 474.9000 BB.FT. 474.9000 IN. 936.7000 IN. 906

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PACE 116	(R87063) (17 3EP 73)
TABULATED SOURCE DATA - MSFC TMF 574	(Re7063)
DATE 26 8EP 73 TABULATED SOURCE	2.00

PAGE 116

PARAMETRIC DATA

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BETA : .000 ELEVTR : -20.000 AILRON : .000 BOFLAF : .000 SPEGRK : 999.990	RAN NO. 195/ 0 RV/L = 4.00 CRADIENT INTERVAL = -5.00/ 5.00
	4.06 GRADIENT
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SHET = 2000.0000 54.FT. 1 UNEY = 474.0000 IN. 1 SHET = 936.7000 IN. 1 SCALE = .0040	

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SATE 28 SEP 75

TABULATED SOURCE DATA - MSFC TMF 574

HSFC 574 (0A48) ORB :39

(R67064) (17 3EP 73)

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PARAMETRIC DATA

-14.250 ELEVTR = BOPLAP = 000. 000. BETA = ATURON = SPEBRK =

GRADIENT INTERVAL = -5.00/ 5.50 2990,0000 SG.FT. 474,8000 IN. 936,T000 IN. SAFF : SAFF : SCALE :

.NI GCCT. 658 .NI GCCC.

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REFERENCE DATA

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..59420 ..17720 .31690 .78860 1.16360 1.45710 1.90000 1.76610 1.46770 1.46770

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	: :			18	MSFC 574 (OA48) CRB 139	ORB 139				(R67064)	4) (17 SEP 73	. K
										PARAMETRIC DATA	DATA	
	REFERENCE DATA	DATA						_	# *	GGG.	ELEVTR =	-40.000
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DATE 28 SEP 73

TABULATED SOURCE DATA - MSFC TUT 574

MSFC 574 (OA48) ORB 139

PAGE 119

(R&7065) (17 SEP 73)

-45,095 ELEVTR = BCFLAP = PARAMETRIC DATA 000° 000° 066°666 BETA = ATLRON = SPCBRK = .0000 1N. .0000 1N. XHRF = ZHRF = REFERENCE DATA 2090,0000 \$2.FT. 474,8000 IN. 936,7000 IN.

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4.91 GRADIENT INTERVAL = -5.00/ 5.00 # **₹** NO. 217/ B

1,78490 1,71870 1,64080 1,55680 1,47100 1,38680 1,23370 1,123370 1,12820 1,12820 1,12820 1,138980 1,38980 CD .25630 .39820 .34820 .40630 .4140 .541140 .541140 .616110 .776110 .616110 .95300 .9 .45760 .51450 .57300 .63350 .63350 .75010 .83470 .90130 .975300 .75320 CA .08220 .08220 .08320 .08420 .08590 .08730 .08730 .08730 .08860 .08730 .08860 .08730 CBL
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TABULATED SOURCE DATA - MSFC TMF 574 JATE 28 9EP 73

HEFC 574 (OA48) ORB 139 W/ALT HOSE

(R677565) (17 SEP 75)

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PARAXETRIC DATA

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CALE :	.0040										
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	3.840	.22430	06630"-	00249	.00190	09000	13951		20750	.17010	1.74870
	A.040	31370	04300	00340	.00150	000	Draet.	00000	20240	.19460	1.96280
		40630	05450	DO420	09:00	00060	13620	cenen.	46450	22410	2.07270
		40730	06450	-,00540	09100	00059	13640	Delen.		25690	2,09760
		36190	07130	-,00650	07:00.	00050	.13310	0350	CESCE.	28510	2.05790
		06.30	07860	00619	.00160	-,00060	13100	01/250	200	34960	1.96550
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C TABULATED SOURCE DATA - MSFC TAT 574

DATE 28 SEP 73

(R87086) (17 SEP 73)

PAGE 121

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MSFC 574 (OA48) ORB 139 W/ALT NOSE

ELEVTR = BOPLAP = PARAMETRIC DATA 000°. BETA = ATLRON = SPOBRK =

> 2690.0030 %.FT. 474.0000 1M. 936.7700 1M. SCALE :

636. 7000 IN. .0000 IN.

REFERENCE DATA

BUL = 4.89 GRADIERT INTERVAL = -5.00/ 5.00 9 35 NO.

1.09120 .30120 .30120 .75650 1.65260 1.69530 2.05610 2.05510 1.90600 1.91760
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(28 738 80) (58 52" 73) PAGE 122

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TABULATED SOURCE DATA - MSFC TMT 574 DATE 28 SCF 73

PAGE 123

(28 926 92) (98 926 73)

PARAMETRIC DATA

MSFC 574 (0A48) ORB 139 W/ALT NOSE

BETA = ATLRON = SPOBRK = REFERENCE DATA

.NI 0007.868 .NI 0000.

RN/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00 9 RUN NO. 2990,0000 90.FT. 474,8000 1N. 936,7000 1N.

SCALE =

					09556. 02100.									
ž	.00110				06206	Ober 1		00000					200	, man
5				00000-	0.000	0.000		2207-	C1210	01660	UZ#2U	-,02000	01050	- 00082
1	ş i	Carrier I	0.020	04190	06660	06730	06260	11190	12240	13170	-,12960	13340	09290	01063
i	5	.11530	.24100	36470	.47760	36760	73160	- 9603v	.97270	1.06190	2.173	1.26620	.73250	05826
į	ş	063.	1.860	4.050	6.250	0.440	10.700	12.920	15.150	17.340	19.500	21.500	10.700	CEANISM
	ğ	1.200	1.80	1.20	3.200	3.500	200	1.200	1.200	1.20	1.200	200	1.200	

THE PROPERTY OF THE PROPERTY O

er garage

8 8

ELEVTR = BDPLAP =

000. 000. 066.666

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DATE 28 8EP 73	\$ 5	TABU	LATED SOUR	CE DATA - H	TABULATED SOURCE DATA - HSFC TAT 574					PAGE	124
			75	574 (OA48)	MSPC 574 (OA48) CHB 139 W/ALT NOSE	AT NOSE			(Re7567)	73 (17 867	2
	METER	NEPENBACE DATA							PARAMETRIC DATA	DATA	:
									000	EVTR =	000
				MI COOL				ATLACK =	000	BOTLAP =	900.
	936. 7000 IN.			.0000 IN.				SPDBRK *	33.330		
SCALE .											
		RE TO	9	- 7ABV -	4.09 CRA	DIENT INTER	GRADIENT INTERVAL = -5.00/	2.00			
1		č	3	č	Ē	ŧ	5	3	ď	8	S
			0	-,04000	0.0000	06000	07560.	01870.	0400	.33190	1.63690
			-,06110	01160	00000	0000	06560	01910.	orore.	36300	1.75130
		07.530	0.070	C8210-	00010	00000	.09610	.01850	.73540	.44420	1.65540
2.8		04446	-,07800	01390	00020	00090	.09710	.01880	78890	.91200	1.53920
2.980		1.0000	01000-	01470	06000*	00120	09760.	01870	. 86260	.58740	1.46640
2.8		1,13410	-,10000	01570	.00030	-,00130	0.000	06910.	. 92140	00000	1.37600
2.980		1.23200	11190	01640	02100	-,00130	09860	08010	.97710	.75700	1.25070
2.8		1.32540	12290	01700	06000	00130	.10090	01910.	1.02560	.64590	1.21290
2.980		1.42430	13390	01760	02100	-,00160	.10110	01910.	1.011	.94390	1.13550
2.80		1.92220	14790	0.01940	.00140	-,00180	.10120	.01930	1.11230	1.04410	1.06530
2.990		1.61760	16030	02010	00100	-,00140	.10120	00010.	1.14730	1.14480	1.00210
2.90		1.14080	10230	01560	0,000	00140	09960.	00610	.86710	.67210	1.3730
	*	. D49D6	00516	DODA44	90000	00005	.0003	70000	.06930	.03942	04075
			?	# 7/48	4.91 GRA	DIENT INTER	GRADIENT INTERVAL = -5.00/	8.00			
										1	•
Ç	AFA.	5	ð	Շ	Ē	ŧ	ర	3	d	8	3
. 1.38	20.240	. 57870	04140	-,00060	.00000	-,00130	0.000 0.000	0000	31300	27540	
4.93	12.230	.65390	04730	00000	00000	00120	02200	.00410	. 574E0	06836	1.77460
4.93	24.280	73967	-,05060	-,00900	09000	00140	06090	0000	06829	00006	1.0029
4.93	26.310	.ee710	-,06900	01060	.00030	-,00500	.08420	.00410	0070	.44220	1.59220
4.80	24.370	.92190	07350	01130	.00100	00160	002.00	.00410	. 70900	.51470	1.49560
4.83	30.450	1.02250	-, Deeco	01360	02100	00210	.0887J	.00410	. 63640	. 59470	1.40630
4.13	32,530	1.12100	09900	-,01350	01100.	00000	06060	00430	.89610	.67950	1.31870
4.93	34.530	1.21750	12560	01460	.00140	00230	00260.	.00430	. 95050	.76700	1.23910
4.939		1.31510	11460	01640	06100	-,00250	09360	.00430	.99910	. 66720	1.16130
4.93	36,700	1.41210	12700	01790	.00210	-,00260	.09350	.00430	1.04220	.95760	1.06620
4.93	40.440	1.50570	13760	01730	.00150	00270	09640	.00430	07670.1	1.09390	1.02440
4.99	30.490	1.02300	06400	-,01290	.00140	00210	.08950	.00430	.63720	.59620	1.40420
	GRADIENT	SCOPPC.	00478	00051	90000	90000'-	29000	.00001	.02840	.03652	04161

1,0990 1,79130 1,69340 1,69340 1,29900 1,212900 1,113990 1,00210 1,37930

1.9620 1.77400 1.9620 1.99200 1.40500 1.31870 1.21870 1.16130

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PAGE 129

(54 438 90) (490492)

PARAMETRIC DATA

HEFE 574 (OA48) ORB 139 W/ALT NOSE

TABULATED SOURCE DATA - MSFC THE STA

DATE 20 9EP 73

ELEVTR = BOTLAP =

000°.

BETA # ATLROW # SPOSMK #

GRADIENT INTERVAL = -5.00/ 5.00

₹ *

6

.NI 0000. .NI 0000.

REPEREDECE DATA

-11-88 0000 0693 474.8000 IN. 936.7000 IM. 989 C. 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.11670 1.13670 1.13670 1.13670

-,00460 -,00510 -,01150 -,00210 -,00210

.00200 .00200 .00200 .00170 .00170 .00140 .00140 .00140 .00140

0.0000. 0.0000. 0.0000. 0.0000. 0.0000. 0.0000. 0.0000. 0.0000.

04 1.10300 1.12300 1.09300 1.09300 1.17120 1.17120 1.133900 1.133900 1.41470 1.43540 1.13540 1.13540

20.210 22.280 22.280 22.280 23.000 33.000 33.000 34.000 41.210 30.870

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2 6 2	TABULATED SCURCE DATA - MSPC TMF 574	TAGE
	HEPT 574 (0448) CHB 139 W/ALT NOSE	(Retoes) (17 SEP
		PARACTRIC DATA
METERORIE UNIA		ALPIN : .000 ELEVTR :

			į								
	٠							•	PARMETRIC DATA	DATA	
	METERDICK	NCE CATA									٤
			į				•	* ***		EVIR =	3 8
	**************************************		# 858.7000	8			•	ATURON		* 3 OF	30.
	474,6000 IM.		ë.	.MI 0000			•	SPECTAL II	989.980		
	996.7000 IM.	2007	8	.0000 IN.							
SCALE S	0900 *										
		200	REST NO. 174/ 0	# 7ª	7.06 SRA	MOST IMERY	GRADIENT INTERVAL = -5.00/	9.80			
		!			;	{	t	3	ರ	8	5
		8	ş	t	Ē		,	CHARA	08880	13430	.41310
	20.30	00440.	01410	19750	01460	0000		0000	093340	.13440	26762
	98.4	00360	-, soest	.15300	01130	200		08880	.05570	.13690	.40120
		03950	-,0073D	11280	00760	0800			05470	13960	39160
	9,1	03050	00870	.07340	09400	0000			05320	13960	36090
	95.4	07360.	00410	.03460	00160	9			05340	13900	.36430
	98	00000	00540	00030	08000				05120	.13740	.37290
	85.	2	00890	-,06130	09800	-,00200	Deret.		04830	.13610	34980
		0	-,005	07800	0000	00470	13960	2000	04740	13960	34290
			-,000	12270	07600.	00680	14010			13690	.32780
3.5			08200	10630	00610	00810	13940	01960			CASOR.
				21110	.01640	01110	.13060	00150	DE LE		37130
1	10.240			8	02100	00090	.13780	03510	06060	2001	-
1.954	8	0000	-		55.00	00097	00028	00000	00071	00028	
	PANDICIT	00071	96000								
	•		0 762 CM MM	# 1/2	4.18 GRA	DIENT INTER	4.18 GRADIENT INTERVAL = -5.00/	2.00			
							į	•	C	8	5
i	į	8	ð	Շ	Ē	턴	ช	3		10500	00000
		0000	01850	.16540	01090	02900	10990	ocaro.		10690	08940.
	1	07900	01630	.15190	01010	00700	10700	20010	00000	10360	02950
		07900	01410	.11490	00620	00270	26601.		00330	.10370	.03290
		00300	01050	06030	-,00590	0000	Decor.	09710	00270	.10373	02930
9.4		04100	-,00840	0440	-,00370	Carana.		01760	00100	10300	01110.
2.90		~6000°	-,50790	02800	06000	Genon.	01901	09710	000090	.19410	-,00519
6.980		00180	00710	CE130.	ereno.		10330	.01750	-,00200		n1960
286.3	2.680	-,00530	00940	06250	oneog.	0000	10390	09710.	00100		01010
2.980	9.780	00230	01060	06760	0000	02200	10400	03810.	-,00220		06120
2.980	7.010	-,00390	01350	13480	04.10	0690	10430	02810	-,00440		04210
2.980		-,00570	C951G*-	19960	Detto:	06000	10360	.01760	COCCO.		0.007
E.980		-,02040	-,00780	2000	00000	00100	50000	00003	0006	-,00001	00667
	CRADIENT	0006	.00027	01736	-						

DATE 26 SEP 75

TABULATED SOUNCE DATA - MSFC TAF 574

MSFC 574 (OA46) CHB 139 WALT NOSE

(67 926 73) PARAMETRIC DATA

PAGE 127

8 8 8

REPURENCE DATA

ELEVTR : A1LRON = .000 A1 .000 IN. .000 IN. SAEY = 200,0000 30.FT. LACY = 474,0000 1M. SAEK = 536,7000 1M. SCALE = .0040

RUP NO. 251/ 0 FB/L = 5.04 GRADIEM INTERVAL = -5.00/ 5.00

- 1 98-00 - 1 1 98-00 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
00000 00000 00000 00000 00000 00000 0000
01730 01730 01840 01410 01470 02130 02130 02270 02270 02270
CAB
C4 .08710 .08440 .08440 .08440 .09590 .07780 .07780 .07860 .07860 .07860 .08100 .08100 .08100 .08100 .00018
.00630 .00630 .00640 .00640 .00640 .00640 .00640 .00600 .00600 .00600
000108 00010 00010 00010 00010 00010 00010 00108
. 15420 . 12460 . 12460 . 09550 . 09510 . 09510 07510 15750 15750 15750
01450 01450 01450 01660 01500 01510 01510 01500 01500
01470 01470 01470 0170 01310 01570 02130 02130 02130 02130
1.670 1.670 1.640 1.640 1.640 1.670 1.670 1.670 1.670 1.670 1.670

					1					PACE	129
DATE 28 SEP 73	t	TABUL	TABULATED BOURCE GATA - MSFC IN 374	CATA - MSF(* 26 1941	,			(880788)	(17 967	ç Ç
			MSFC S	74 (OA.48) CI	MSFC 574 (OA48) ORB 139 W/ALT NOSE	NOSE					
									PARAMETRIC DATA	DATA	
	RUDIORCE	DATA						# 470 TV	10.000	ELEVTR *	990
		•	.NI GCOT. BEB 3	O IN.				-		BOTAP =	900.
	2000 0003 M	•		.NI 0000				SPEERK N	999.990		
	474.8000 IN. 996.7000 IN.	Z14872	50G*	.9000 1N.							
BCALE :	0700		•				•	63.53			
		RUN NO.	0. 1777 9	# 1/NB	7.07 GRADI	CRADIENT INTERVAL				1	9
					į	ŧ	5	9	ರ	8	- 12840
1		5	5	Շ	2 i	3	13090	.03450	.46400	12012	07010
	-10.360	006.00	56400	19990	04000	01010	13320	.03450	.45460		2.07550
	-6.34D	46600	04070	12221	OZ VOC	.00740	.13570	03440	26297	9	2.07510
1.936	-4.270	.495ED	01130-		00140	06700	.13510	.03260	26034	02022	2.07170
1.95	-4.800	oraes.			06100	.00140	. 23440	03110		22030	2.06210
1.13	-2.110	.4660	OF THE P.		03200	-,00113	13400	OSDED.	200.7	01912	2.03770
1.93	900.	49115	2000	0220	00300	00370	13300	03550	C. 6444	01613.	2.04960
1.030	2.100	79080		08270	. DOZZO	00640	13460	Section.	0000	09522	2,03860
1.938	4.140	.46130	00000	06601	.00290	06600*-	13760	Den.	72000	02722	2.03600
1.936	6.290	48870	01660	14310	00100	01230	.13610	0.000.	45760	22110	2.07010
1.906	9.360	.46960	0000	18150	06100	01530	.13460	3980		0660%	2.07970
1.85	10.360	010		00210	DetCO.	-,00140	.12900	osten.	•	00036	00310
1.936	000	200	9000	-,01551	ecco.	00129	-,0000	2000			
					Nan	COADIENT INTORVAL = -5.00/	VAL = -5.	00.8 /00			
		2	EN 10. 253/ 0							1	5
					į	ŧ	5	3	ď	В	
	Í	ð	₹	Շ	N I	}	00960	.01950	30160	.15120	
	-10.450	32290	03550	.15430	0220	00000	08750	01910.			1.99390
-	1	32130	-,03340	12430	OEE	2020.		02810	0883.		1.971
2.3		31620	-,03040	00000	00160	0000	Coppe	01930	03863.	.15040	1.94920
7.950			02730	09960	00000	0.00		200	00163		1.94735
2.8 0	7.40	00000	075-0	00000	06000	.00330		2000		.14835	1.94620
4.	-4.400	. Siero	100	00100	gegga.	.00040	06760.	Creato.		.14620	1.94270
8.80	390	Z R		02810	06000	-,00200	06490	0.000			1.92360
8.980	1.700	3000		05720	00100	00500	09960	04610.			1.93900
2.90	3,740	30606	-	02080	06200	01600	.0963				1.94000
2.30	5.780	.91190		20.00	07500	01210	.09790				1.94850
2.9	7.810	.31010	•	. 15630	00330	01420	.09650				1,94560
6.9	9.790	.31350	•	-,15650	00000	01000.	09960			•	
8.930	-,390	30600	•		21000	00146	-, 00003	-,00000			
: 	CRADIEST	1,000	92000	01410							

TABULATED SOURCE DATA - MSFC THT 574 CATE 28 SEP 73 MSFC 574 (OA48) ORB 139 W/ALT NOSE

(R87069) (17 SEP 73) PAGE 129

8 8

ELEVTR =

ALMA = 10,000 ALLECN = .000 SPORK = 999.990

PARAMETRIC DATA

REPERENCE DATA

.NI 0007.86 .NI 0000. 2000,0200 30.FT. 474,0000 1N. 936,7000 1N. SCALE :: SCA

RUN ND. 292/ 0 98/L s 4.99 GRADIEM INTERVAL s -5.00/ 5.00

1.05610 1.01200 1.01200 1.05600 1.05600 1.05600 1.05600 1.06000 1.06000
111540 111540 11159 11150 11100 11100 11150 11150 11150 11150
0.44.13.10.10.10.10.10.10.10.10.10.10.10.10.10.
.0040 .00500 .00500 .00510 .00510 .00510 .00530 .00530 .00530
CA .078ED .078ED .0784D .0728D .0729 .0739 .0739 .0740 .0760
.01310 .01100 .00310 .00330 .00030 .00030 00200 00740 01100 01100
00010 00030 00030 00030 00030 00130 .00130 .00030 .00030
0.0023. 0.0023. 0.0023. 0.0023. 0.0023. 0.0023. 0.0023. 0.0023. 0.0023. 0.0023.
10.340 -4.420 -4.420 -4.400 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -2.340 -3.400 -3.000 -3

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	<u> </u>										
			MSFC	574 (OA48) (MSFC 574(OA48) ORB 139 W/ALT NOSE	T NOSE			(RBTOTO)	D) (17 SEP 75	٠ د
	SEPTISEISCE DATA	DATA							PARAMETRIC DATA	DATA	
									1	× about G	000
	.F460.0000 98.FT.	T. X	* 636.7000 IN.	90 IN.				# MARY #	000		900
	474.8300 IN.	A FEBRUARY	٠ 8	.9000 IN.					000		
	996.7000 IN.	274.5	80,	.0000 IN.							
SCALE :	. 0040										
		CM MIN	0. 17. 0	RW.L =	7.07 CRA	CRADIENT INTERVAL = -5.00/	/AL = -5.0!	3/ 5.00			
					:	į	;	•	C	8	5
	META.	5	3	5	ž	Ħ	5	,		44690	1.81630
	•	095967	10100	13920	00130	.01660	12000	03960		5	08618.1
		0836	10170	02660	.02010	.01240	.11960	0.0000			76740
		02750	15090	02190	08810.	.00740	12420	.03730	100		
See. I		02.130	-,10060	00020	06610	.00360	.12690	03660	84620	.47450	
200			08990	.00270	06600	01000	.12960	03670	0.748		
1.938	•		0000	62610	.00190	00160	.12860	03000	.64330		1.77360
200.1			(Jeek)	-,04090	-,00600	00430	02921	.03700	.84320	47430	1.77.00
1.935				00690	01130	00610	.12360	.03630	.63430	.46540	1.79260
1.053				06660	-,01500	01230	.12280	.03640	. 63950	.46700	1.73770
1.933		9	Carrier of	13860	01660	01620	.12130	03600	.84570	.46650	1.80489
1.00				09621	01749	02050	.12145	02550	. 84620	.46640	1.80630
1.935	2	-		CK BAC	02.00	-,00160	.12630	.03660	.62990	.46630	1.797
1,165		1		0100	00326	00134	00033	00003	00118	-,0006	, 0000
	economical and a second	2									
		2	RLN NO. 244/ 0	88/L #	4.12 GR	GRADIENT INTERVAL = -5,000	VAL = -5.0	5.00 5.00			
				į	į	ŧ	3	3	d	8	5
Ž	AT.Y	8	ð	ָ כ	2		Castac	01960	01919.	.33410	1.85480
2.980	-10.530	3130	000	1555	Della.	9		COUL	01910	.33330	1.05750
R.940	006.4	696 70	-,05980	06101	oreno.		0000	06610	.61630	.33250	1.65960
R. 980	4.30		09073	09170.	DCBOX.	00000	79430	09610	.61620	.33150	1.65630
R. 980	0 -4.470	98390	-,05690	racian.	Celoc.		CORPO	09610	.61610	.33340	1.64600
2.980	0 -2.410	0000	05600	orero.	00000	00000	0070	02610	.61160	.33040	1.05100
E.980		C 666 0.	05360	00520	oston.		00700	00010	.61470		1.65390
2.900	017.1	.65190	05680	-, DZ820	UC35	1000	20100	5.6.0	A1430		1.86090
G86.4		.69110	05900	05200	00540	0000	9660	20000	61470		1,66260
2.890	9.610	.69140	05900	06220	05950	01130	Carcan.	20010	61910		1,85560
8.980	7.860	06899.	05930	10990	-,00749	12610	00000	00000	A: 310		1.64930
060.5	039.6	. 69050	CC09G*-	13940	-,00090		U\$060.	00000			1.85430
		.69150	05540	-,00560	. 50200	00010	.09470	02610	10.		***************************************
4						1					

BATE 20 SEP 73

TABULATED SOURCE DATA - MSFC TM 574

(R67070) (17 SEP 73) PARAMETRIC DATA

PAGE 131

900

ELEVTR = BCFLAP =

ALPMA = 20.000 AILRON = .000 SPECHK = 999.990

(

NSFC 574 (0A48) ORB 139 W/ALT NOSE

REFERENCE DATA

.NI 0000. .NI 0000. .NI 0000. 2000.0000 98.FT. 474.0000 IN. 936.7000 IN. SCALE :: SCA

4.97 GRADIENT INTERVAL = -5.00/ 5.00

		SCN .	RUN NO. 245/ 0	# 5	4.97 GRAD	JEN INSEN	MADIEMI IMIENAME - STEEL STEEL				
				į	į	ŧ	5	CAB	đ	8	5
ğ	BETA	ð	ð	Շ	E	}	,	200	24.780	05844	1.86010
			C8570	10370	07110.	52.5	0.290	2015			
	-15.410					01370	0.000	06700	. 52260	.27810	1.07
	27.7	56670					08870	02500	52270	.27690	1.86760
	4.40	. 50620	04610	.05640	ייטיטיי.				52450	.27720	1.69170
3	97.4	56790	04350	03680	05500	OBLICO.	03670			-7630	1.89650
				01730	00390	5005	.07850	00600	. 26360	3	
	2			07800	Caracter	00000	00670.	02500	. 52790	.27820	1.697
	9		- CE 200			00000	07820	00490	. 52470	.27625	1.89970
664.	1.80	. 3877	04520	02320	DECCO:-	00000		0000	52190	.27430	1,90250
1	3.670	56430	04690	04440	0000	-,00640	04/10*	0000	0000	27840	06868.1
		14540	-,04590	0.06670	05430	0.00970	.07810	oteno.	. 255		
				Capaci	02200	-,01270	07930	02500.	.52060	JEC / 2.	10001
1.950	7.70	36360	20047	26000		01840	OKUWO.	.00540	.51750	.27610	1.67360
4.93	9.6	.56100	-04400	10919	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2000	00000	0000	. 52350	.27650	1.69280
	098	20000	24410	00340	00200	orcoo.	Dec. C.		- 0000	#2000 -	.00122
		00000	- 0.00	01927	-,00106	00181	0019	0000	- 11.1.1.1.		

			AND AND ANDER DATA - MSPC TAT 574	PATA - MG	TAT 574					PAGE	132
CATE 20 SEP 75	۲ د		200	174 (OA4B)	MAEC 574 (OA48) ORB 139 W/ALT NOSE	1 N36E			(R67071)	1) (17 SEP	25
	!	•							PARANETRIC DATA	DATA	
	REPERENCE DATA	244						1	000	ELEVTR =	900
	2000.0000 36.FT.	T. Kath	= 636.7000 IN.	30 TK.				~	660	BOFLAP =	900.
9	_		# " 8 6	.0000 TN.				SPDBRK =	999,990		
SCALE :											
		S S	0. 239 / 0	MAL =	4.12 GPAC	CRADIENT INTERVAL =	/M = -5.00/	06.8 %			
		!			į	ŧ	ð	8	ಕ	9	\$
Ö	BETA	5	ş	5	-	9	5	01970	00116.	.66610	1.3677
2.990	-10.490	1.12390	09630	10360	0.410.	06910	06001	00020	.91560	.66750	1.3715
2.850		1.12000	19070	06940	61410	00110	19020	.02010	.92190	67079	1.3745
2.930		1.13570	1020 	CE LOCAL	05110	00900	02960*	.01960	.92270	66870	1.3790
2.980	4.490	1.13530	250	0.000	09400	.00219	.09760	09610	.92610	.67150	1.306.1
2.990		1.14130	-1000	C 2000	02100	-, 50060	.09760	.01940	.92520	.66970	1.3814
8.90		1.13600	-10000	2000	99529	00319	.09730	.01939	.92850	.67140	1.306.1
P.990	1.000	1.141.2	00000	02060	01600	-,05690	GC96G*	.01950	.92420		
8.990		1.1575	00000		01219	91173	08860.	.01980	.91910		944
8.980	2.60	1.1313		9	-, 91480	01730	.09850	.01960	.91520		10/C*1
8.8		1.12070	2000	1960	-,01719	02230	06960.	.01930	.91016		
E.990		00121.1	0.500		09100	070000	. D979C	.01940	.52510		1.300.1
2.980	065°-	01961.1	50000	-,00939	00265	-,00155	-,00003	DEX.D.	71000.	100000	· Kr
		2	96	178	4.96 GRA	GRADIEST INTERVAL = -5.00/	VAL = -5.0	5.00 5.00			
						;	į	ş	5	8	5
ğ	META	5	ğ	Շ	Ē		5	1	62900	08966.	1.309
4.93	•	1.01720	-,08519	.06290	02410	57.6	200	05700	.63630	08965.	1.396
4.939		1.02450	06530	06390	01430	Carrier Carrier	06060	09760	.64110	01009.	1.403
4.93	-6.430	1.0000	06540	04640	Carrier Carrier	02900	01060.	COMOD.	.64300		1.404
4.959		1.03100	0690	13630	3749	00300	00690.	.00470	.81430		1.407
4.93		1.03190	06660	0000	0.00	C2000-	CCGPC.	00490	.84645		1.400
4.95		1.03430	08780	0.000.0	00280		(16890)	.00460	.84569		1.408
4.939	1.670	1.03340			-, 00560	02100	.56940	.05485	.84340		1.406
4.959		0.000.1	COST	06430	00620	01130	00060	.00480	.63739		1.400
4.959		00000	. 14650	06390	01149	-,01450	02060.	Casco.			
4.959	7.730	1.12420	CC000-	10349	-,01520	21 790	07060.	06400.			860.1
4.939		Capto.	. 76.60	03900	06100	-,00020	.08800	.00500			2.410
4.65	_	1,0000	•	2980	-,00169	-,00169	70000	CONTRACT.	10001	1 - 00001	
	GRADIEM	erara'a.	· None								

1.36770 1.37450 1.37450 1.38260 1.38280 1.38290 1.38290 1.37690 1.37690 1.37470 1.38060

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1.39900 1.39600 1.40160 1.40420 1.40500 1.40500 1.40500 1.40500 1.40000

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TABULATED SOURCE DATA - MSFC TVT 574 DATE 28 SEP 73

(R87072) (17 SEP 73)

PARAMETRIC DATA

000.

MSFC 574 (OA48) ORB 139 W/ALT NOSE

ELEVTR = BOFLAP = 000°67 000° ALPHA = AILRON = SPEBRK = .N1 CCCC. MARP VIRE REPERENCE DATA 2000.0000 50.FT. 474.8000 IN. 936.7000 IN. LEGY :: SCALE ::

1.01160 1.0150 1.02050 1.01640 1.01640 1.02220 1.02220 1.02110 1.01830 1.02120 1.02120 . 02120 1,05590 1,05220 1,06220 1,06280 1.05950 1.05500 1.04700 1.04230 1.06140 -.00071 1.06160 1.06160 1.06570 1.06310 1.06310 1.06310 1,06630 1,05790 1,08390 -,00028 CL 1.06240 1.07230 CAB .00420 .00420 .00430 .00430 .00450 .00450 .00450 .00450 .00450 4.98 GRADIEN INTERVAL = -5.00/ 5.00 CA .10380 .10180 .09640 .10180 .09640 .10000 .09780 .09710 .09710 .09750 .09750 .09750 .100000 .10000 .10000 .10000 .10000 .10000 .10000 .10000 .10000 .1000 .01860 .01860 .01860 .00870 .00910 .00910 .00910 .01890 .00000 CTN
.02060
.01760
.01390
.01062
.01063
.00610
.00610
.00610
.00610
.00610
.00610
.00610 -.04710 -.06409 -.09609 -.09800 -.01550 RUE NO. 246/ 9 RWL = CY .06790 .05000 .03300 .01540 -.010010 -.03030 -.14460 -.14549 -.14659 -.14650 -.14490 -.14160 -.13590 -.14329 -.14160 -.14630 -.14679 1.51610 1.51125 1.51210 1.50610 1.49120 1.48170 1.51390 CK 1.49010 1.50150 1.51110 1.51280 7.790 9.690 -.390 GRADIENT 1.680 3.670 5.750 -6.430 -6.430 -4.410 BETA -10.390 4.939 4.939 4.939 4.939 4.959

PAGE 133

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										PACE	134
ATE 24 SEP 73	50 73	TABUL	TABULATED SOURCE DATA - MSFC TUT 574	SATA - MSF	7.5 TAT 574						
			2	574 (OA46)	MSFC 574 (OA46) OKB 139 W/ALT MOSE	T NCSE			(867073)	3) (17 SEP	٠ د
	'								PARAMETRIC DATA	DATA	
	REFERENCE	E DATA							1		000
	0.0000	Sept.	* 833.73	833, 7000 IN.					0 0		13,750
	474.8000 IN.	:		.N1 0000				ATCRON :	066.666		•
	936.7000 IN.	21KP	66.	.DOCO 1N.							
BCALE =	.0049										
		RUN NO.	0 /012 .0	RK'L =	5.03 GRAD	CRADIENT INTERVAL =	L = -5.05/	8.8 >			
				į	į	ð	ð	8	ಕ	8	Ş
Š	ALTHA	3	ij	Շ	N I	, e	3	03530	00690	0.06570	1.04943
.602		.06090	-, 90290	00000	07000	00000	0440	03460	.16510	06690.	2.38280
		.167DO	99745		0000	0.00	02820	03490	27290	.07560	3.59900
200	3.690	.2772	-,01320	06100	oppos.	06200	02040	.03460	.37300	.08820	4.22510
206.	s.750	.36000	01990	06600	OFFICE OFFI	01800	00770	.03553	.47810	11030	4.33310
206		.48670	02710	-,00040	65100	.00280	.03460	.03530	.56010	.15370	5.64400
208		. 57620	0000-		OZOCO.	00000	.05560	09980.	.65760	19720	3.55550
206		66450			00100	01030	.05240	.04030	.76440	.24690	3.09310
ğ		06108	01500	1000	65000	.00450	05030	.04365	.67450	.30760	000000
209.		.92570	2000	0.000	00000	00230	.05030	.04720	.97670	37720	09990.2
8		1.04580	cenen.		02100	DD48D	.05050	.05450	1.06300		C. 2003.
- 602	20.360	1.15270	01690	0.000	07100	07200	.05490	.03510	.56100		3.63970
9		57920	06680	CTCCC-	70000	00002	00198	00010	.05036	.00250	12829
	GRADIENT	.05154	03255	-							
		ON NO.	NO. 271/ 0	RVL =	6.27 CRA	CRADIENT INTERVAL = -5.00/	/AL = -5.0	5.00			
						ē	5	843	ರ	9	S
¥ O		8	3	5	(A.K.		09190	.03760	.07440	.06120	.91610
.965		.07390	00310	00240	CO CO	02100-	06270	03770	. 1910)	•	2.1561
.909		.19350	01360	08400	09100	00010	.06520	.03790	.2959		2.60620
8		30230	01220	30.00	07.570	00110	D8980.	00660.	.39320		2.98900
\$08.		40480	0.000	0.140	06200	01000	02160	.03910	.48510		3.00390
506		90410	01690		Cade	01500	09400	.04260	.60240		2.93270
506		05639	000-	00000	07500	00200	.10120	.04530	.72560		2.740%
508		.76560	01680	00000	01510	06500	.10690	.05110	.85190		2.54710
208		06906	11260	136 50	05000	00450	.11000	.05800	.94540		2.54920
606.		1.02150	11450	1 01.760	06200	DECORE.	.11740	.06720	1.01560		2.13960
6	_	1.11490	11560	20,10	טאטעט	-, 00050	.12560	.07780	1.05310		1.94750
90	_	1.17720	10030	00000	Dr. actio	00300	.09270	.04160	.5996:		2,94350
ë		.62640	-,(16645)	00124	100022	.0000	.00006	10000	.05271	.00575	.44955
	CRAUSENT	35436	101111		•						

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									(R67073)	3) (17 86	
			ASP.C	574 (OA4B)	HSFC 574 (OA4B) ORB 139 WALT MUSE	. a Mc66					
	STREET STREET	DATA					-		PARAMETRIC DATA	DATA	
	ļ ļ							•	000	C.EVTR =	000
	7.98 0000,0695	1. X46		636.7000 IN.				X	66.	BDFLAP =	13.750
	474.8000 1W. 936.7000 1W.	20.5		.0000 IN.				SPCDAK *	988.880		
SCALE *	.0040	3	•	# 15M	6.66 CRAC	GRADIENT INTERVAL =	/AL = -5.00/	00'5 /00			
		<u> </u>				ŧ	8	85	ರ	8	5
Ŏ	ACTA	5	ā	Շ	N C	4		09290	14050	.16410	.76320
1.201	230	-	02350	90100	00100	2000	18750	01290	.26140	.19610	1.33300
1.201	1.860	.26760	05130	901Z			16690	06290	CCOSS.	.21630	1.75630
1.501	4.050	39430	07490	DOESO	06100	0000	02691	.06430	.48500	.24340	1.99200
1.13	6.250	. 50660	06060*-	- 20460	oraro.	01.00	00841	06750	.56320	.27770	2,09970
1.201	0.440	.e. 770	19320	00620	CLEAN.	01100	Deser	07070	.71100	.32670	2.17660
102.1	10.090	.76010	-,13060	01060	02500	0000	1892	09020	07220.	.38290	2,14650
1.201	12.920	.06790	14890	01090	coco.	07000	19090	08520	.92220	.44740	2.06110
1.201	15.140	1.00700	16250	01360	ncene.	00000	F.	07840	06666	.51310	1.94660
102	17.345	1.10750	16750	01610	06600.	nemo.			00000	. 56240	1.63530
	19.900	1.20210	-:1693	02270	0000	.00160	01261	9	13900		1.73700
	200	02006.1	17160	02000	C8700*	01000	19090	octon.			2.18580
		76230	12960	01020	occoo.	crson.	16630	06990			22072
1.50	GRADIENT	05850	-,01192	00093	.0000	-,00026	.000	.0000	eeco.		
		RUN Ü	RUN RD. 181/ D	. 178K .	7.14 GRA	CRADIENT INTERVAL =	VAL = -5.00/	90' 8'00			
				i	į	ŧ	đ	9	ሪ	8	2
Ď	AFF	3	ð	Շ	CTR	4	5	03360	04040	.14010	.43120
3	-,390	.09940	01610	00020	02100	01000		03270	.14160	.14450	.96020
2.945	1.660	.14500	03020	00100	0.00140			09280	23160	.15920	1.43570
1.946	3.630	.24200	-,04560	00230	06100	00040	14330	02250			1.76660
3	6,030	.33360	-,06030	00370	.00140	(2.0.0)		04.40			1.96180
2.9	9.200	42000	07250	00630	01210	Decor.		01250	47440	01622	2,07040
3.5	10.390	. 50750	-,06290	00630	מע זכים.			03370	. 55410	.26640	2.07960
	12.390	. 59660	09200	00750	00100	00040	02261	07850		30630	2.03710
3.946	14.720	.66150	~.09640	00030	0.000		0261	.03450	.71100	.36260	1.96030
1.1	16.970	.78590	10670	01000	01207	10000	0.000	05530	.79090		
1.946	19.160	.88570	11710	01190	oczon.	10000	2,01	03720	.66640	.48760	-
1.946	21.ETO	.96430	12630	01255	0.200	06000		DESC.			~
3	10.360	00100	09090	-,00590	06100	2014	2007				******
			-	1 1 1 1 1 1			1		24040	00452	2414

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			ATT PARTY ACTUALLY BATA - MSFC TVT 574	BATA - MSP	C TM 974					PAGE	136
24 TE 25 TE 75	t t		3	174 (CA48) Q	MEET 124 (CA48) ONB 139 W/ALT NOSE	T NOSE			(Re7073)	S) (17 SEP	
			}						PARAMETRIC DATA	DATA	
	NETENDICE.	DATA			٠			. [Ş	יי אנא פ	900
1	To the state of th	Q.	# 836.70	834.7000 IN.				BETA "	8 8		13.750
			20.	.N1 0000.				SPECIAL R	066.666		
	996. TOO IN.	27.62	6.	.0000 IN.							
SCALE	960.			3	GRAD CE. A	CRADIENT INTERVAL = -5.00/	AL = -5.04	9.5.00			
							į	4	ď	e	5
	A 844	ð	ş	Շ	Z J	ď	5	3.0	01340	.10640	.12650
		04210	01570	00190	00000	06000'-		067.00	06280	.10730	. 58570
	1.460	09690	01800	09000"-	00000	0000		01830	.12500	.11160	1.11667
2.980		07121.	02310	00190	06000	0000	10220	09910	.17940		1.49100
2.980		.19030	02790	00300	09000	06000	20170	01910.	05652.		1.77600
084-8		.25540	03220	00350	cecoo.		10140	.01940	30200	.15490	1.94990
2.980		36390	03710	-,00400	0000	0000	10110	.01940	36640	.10000	02520
2.980	_	39560	04330	05460	20100		10120	01910.	.42950	.21020	2.04270
2.990		.46740	-,04860	00560	200.		10060	.01870	49700	.24720	01010.3
2.980	36.000	.54990	05660	0.000	2000		10090	01010.	. 55990	.28870	1.93900
086.4		.62190	06440	-,00820	00100	2000	00101	01610	.62 29 0	.33560	1.65580
		.70020	07270		06100	0,000	9	01950	.30720	.15590	1.97093
2.9		32920	03800	00430	20000	2000	-,00067	,00020	97720.	.00135	.24688
	8	.02967	00105	00010	ogn.						
		2	BIN NO. 257/ 0	BRIAL =	4.94 GRA	4.94 GRADIENT INTERVAL =	VAL = -5.00/	00' 8'00			
						į	į	87	d	8	ያ
	7	5	5	Շ	ž		5		01240	00100	15360
5		01310	082200	00190	.00100	01000	oenen.		02640		.33150
		04640	02270	00340	00000	01000	orean.		06780		.62760
		07270	01210	06000*-	01000	00000	04940	07700	11560	05780.	1.31960
		.12340	02510	-,00390	0000	one on		05700	16350	09760. (1.67130
		.17490	02510	-,00230	-,00010	2000	04440	09700	.21640	09411. (1.92180
		23430	02560	-,00210	etace.	0,000	Creso.	0.574	.27180	13340	2.03670
	•	.29310	03019	-,00250	00020	06000:-	07740	09700		015970	2.07110
		02866	03450	00360	C2000*-	COLUMN TO THE PARTY OF THE PART	2000	07400	.38830	09161. 0	2.02370
20,7		MEST.	03850	-,00360	09000	Dioco.	Cocao	07400		3 .23140	1.97620
4.653		. 30650	04650	00590	00000	Decree.	0.1441				1.66860
		.56250	05400	00549	-,000030	Catalan.	2440			0 .11360	1.92440
000		23480	02650	00270	-,00020	36000	Atom -			1 .00026	.24640
	\$	22120.	91000	.00023	00023	cirron.					
					•.						

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DATE 29 SEP 73 TABULATED SOURCE DATA - MSFC TMT 374

REPERENCE DATA

PAGE 158

MSFC 574 (OA48) ORB 139 WALT NOSE PARAMETRIC DATA

	2880.000 98.FT.		. 636.7500 IN.	. II.				BETA =	96. 96.	ELEVTR = BOTLAP =	.000	
	474.6000 IN. 656.7000 IN.	- dage 2	200	.0000 IN.				SPOORK =	355.050			
SCALE =	9000	•	2	H VAO	S.OE GRAD!	CRADIENT INTERVAL = -5.00/	L = -5.00	8.60				
										1	•	
		i	;	č	ž	ŧ	S	3	ಕ	8		
Į.	F	5	5	;	C POLICE	CHARL	03860	06630	00830	02460		
8			00	06.50			04840	02.00	D699G.	.05940	1.45170	
8	1.540	06790	orzao.	00130	00000	0.000		Case	18880	Cesso.	2.55810	
•	S. 840	.19640	00000	00020	arcco.	ogano.	2446	2	28675	00570.	4.06630	
1	2.72	30450	.03340	00470	.00100	06200			40370	07160.	4.39990	
	7.010	.41240	.02510	-,00660	.00170 51.00	0020	2000	0.00	.48390	13070	3.70190	
	000	03669	00010.	00750	06000	06200			56440	17500	3.39660	
9		. CO 740	09010	C6900'-	.70130	00000	24670	Deser.	000	25.670	3,19960	
<u> </u>		2007	.01110	-,01690	09100	09600	0.00	00000	7	.27420	2.89090	
		0	01130	01140	06000	.00490	04110	0.000		0888	2.63620	
8	95.50		CHONO	00790	00000	00230	00000	09800	01110	40380	2.41160	
8			0110	-,01360	07100.	00450	0000	04940	State.	0.00	3.71710	
8				01460	06100	06300	.0449C	00000	0000	4.00	76902	
8	006.0		27.00	00036	21000.	.0000	00166	31000.	.04667			
	MADIENI.											
		ON AND	9	# 1/A	6.29 GRAD	6.29 CRADIENT INTERVAL = -5.00/	AL = -5.0	8.8				
			ł.					;	•	ŧ	\$	
•	, i	5	80	Շ	Ē	턴	ช	3	, {	980	37720	
Š	5	, į	F-12	0.00010	0,000	00000	67.0°	DVOCD.			05579	
É	00.			-,00060	09000	06000*-	.07860	00630	13390	990	24160	
8	1. 100 c	1300	9	-,00610	02100	00030	07 9 70.	06620	2442.			
			01810	0062D	,00250	~.00100	.06290	06060	233	0047		
			09900	01100	.00240	02100	.06240	01360				
		29440	-,00920	01460	.00245	.00250	04890	06660.	. 33060			
ğ i		06200	-,03550	09030*-	06000	מיזפרים.	.09110	CLESCO.				
3 1		07870	04330	01410	.00210	06500	.09490	Ogeno.		36240		
			-,03900	01270	02000	.00430	00660	need.				
Ŗ Į		00100	06230	01520	06200	00110	.10510	oreco.				
į	8	1.04150	00110	01290	02000	00030	. 11160		23186			
	0.00	.55540	00690	01490	.00270	09200	OCEN.	9900	78164		-51 709	
34.	GRADIENT	.05317	00475	00097	.00012	00007	.000	* 1355.				

	\$	15	TABLATED SOURCE DATA - MSFC TMF 574	e cata - M	SPC TAT 574					PASE	£ 130
	:		M	574 (0448)	MSFC 574 (OAAB) ORB 139 WALT HOSE	.T NOSE			(Re1015)	138 (11 BEP	. 2
	adiana.	ATT STATE						-	PARAJETRIC DATA	DATA	
		<u>:</u>							1		Ş
	96 0000'088	54.FT. 105F		636.7000 IM.					8 6	BOTA .	-14.750
	474,8000 IH.			.0000 IN.				- X X X X X X X X X X X X X X X X X X X	**		
	. NT COOL THE.	-	*	.0000 IN.	•						
		3	6	# 1 /2	7.16 GRA	7.16 GRADIENT INTERVAL = -5.00/	VAL = -5.00	9.30			
					,	į	3	85	d	8	\$
MON	157	ð	ð	Ե	E 1	3		07150.	04800	13620	30430
2.943	370	.04110	06900	06000	9100		13740	03130	.12250	.14100	. 06030
1.943	1.80	11000	0.000	0000		-,00090	13630	00000	. 20200	.19020	1.34490
1.903	3.630	21180	OLENO.		00100	06000	.13660	00000	. 2390	.16660	1.74070
	6.030	STATE OF THE PARTY	0000	0000	02100	000	13550	06620.	36640	255	1.94200
200	0.130	27.65		-,00510	.00130	-,00060	13220	03060	.44910	٠.	20000
2.00	20.02		05750	04600-	.00140	00090	.13200	01360.	. 32610		2000.2
I. I	3	68890	-,06310	-,00760	30100	-,00060	13030	.03270	0000	00262	06160.5
2.0		200	06040	06900	07100.	00040	.13010	.03410	00000		
			O2270	-,01060	.00190	09000*-	.12640	03480	.75560	•	
			06790	-,01150	06100	-,00060	.12670	03670	00020		2000.1
2			-,06860	-,00510	.00140	-,00060	.13160	.03110	.44400	_	20000
	SADIENT CANDIENT	6000	800	-,00080	60000*	-,0000	00052	-,000	0360	.00207	2
		1	2	. Well	4.12 GA	CRADIENT INTERV =	/00/s- = -N	9.60			
		}							,	1	•
į		8	T C	Ծ	£	ŧ	ฮ	3	đ		
			00430	00000	.00030	-,00030	10350	.01740	06800		
		08030	00530	00100	.00040	00000	10360	- Parison	05160	200	
	0.00	11440	00740	00130	00000	0.3000*-	.10190	01810.	1000		00717
		37440	01030	-,00060	.00230	-,00040	06460	03910	9		1.74340
	3	25930	01540	-,00300		00020	09790	02810.	01722		00876.1
		30700	01770	00310		00010		02010	2000		9.03440
		.37500	06250	00400	0,000	00010		02010	01400		2.05250
	0.67	.44540	08660	00420		00030	07560	01910	Dean.		063200
	000	. 92220		-,30490		-,00010	06760	orero.	39678.		09886
	080.41	03966	-,05790	00750		02000"-	00600	02010	Deace.		1.86210
		08780	04140	00740	.00120	-,00040	.08420	01930	9009		0.000
		30090	01720	00270	.00100	00030	07960	03010	W992.		
	TEADTON.	.02789	00073		\$1000.	-00006	26000*-	1000.	· DEBOY		

TABULATED SOURCE DATA - MSFC TUT 574 DATE 28 SCP 75 MERC STATCHAR ORB 139 WALT NOSE

(R&T075) (17 SEP 73)

PACE 140

REPERENCE DATA

PARAMETRIC CATA

.000

ELEVTR = BOFLAP =

000. 000.

BETA : ATLRON :: SPEDRK :

.0000 IN. 2000.0000 90.FT. 474.6000 28. 936.7300 18. SCALE .. GRADIENT INTERVAL : -5.00/ 5.00 9 35 ES.

CO .07740 .07740 .08790. .08490. .12750 .12750 .13160 .16560 .26060 .26060 CAB .00370 .00370 .00400 .00400 .00420 .00420 .00420 .00420 .00420 .00430 CA .07620 .07690 .07690 .07300 .07390 .07390 .07390 .07280 -.02190 -.02590 -.02500 -.03470 -.03470 04 0.2870 0.0810 0.11430 0.11430 0.11430 0.11430 0.11430 0.11430 0.11430 0.11430 0.11430 0.11430 11.600 13.600 15.700 17.130 19.670 8.360 68.010 1.500 1.600 5.400 5.400 7.900 9.50

	TABUL	ATEC SOU	PCE DA	77 - XS	TABLATED SOURCE DATA - MSFC TUT 574	z				
*4		¥	FC 574	(0448)	OKB 139	MSFC 574 (OA48) ORB 139 W/ALT NISE			(2670795)	3
BEFFRENCE DATA	Y.								PARAMETRIC DATA	C DATA
2050.0000 90.FT.	Ř		838.7500 IN.	ī.		•		BETA =	66.5	ELEY BOT
474.6000 IN. 936.7000 IN.	¥ 12	µ H	.0000 1N.	ž ž				SPOORK =	***	
	SUN NO.		6	#VL #	4.37	gradient interval = -5.00/ 5.00	CRVAL = -5.	00'\$ /00'		
	٤	4 94	ð	_	ā	t	ž	룡	ರ	
	5	8	"	0100	D1740.	.00190	06000*	00010	10140	
• •	1.195	1.650	, ei	00922	00720	00000-	.00100	00100	01022	
•	.195	4.040	7	0667	02710	•	00100	02100	DECK!	
•	.195	6.249	•	02.091	04030		12100	orona		
**	193	8.430	•;	02171	05010	•	COSCO	CONTRACT.	2000	
•	.195	10,690	۲.	.71277	-,07590	•	02200	DESKS.		
•	195	12.930	•	.6397D	09350	•	09200	oe to:		
**	195	15.140	•	.95740	10410		00000	06000	2000	
•	.195	17.330	1.0	.05760	11030	•	03800	0000	07160	
-	.195	19.490	:	.15150	10960	•	01900	orano.	37.90.	
-	1.195	21.570	1.2	.24300	11090	•	0100		0000	
*	.195	10,700	•	.71710	97550	•	(1)	18.00	24750	
	•	PRADIENT	ų	50507	01:139	9000	2000			

TABULATED SOURCE DATA - MSFC TAT 574 DATE 28 SEP 73

NGFC 374 (OA48) ORB 139 W/ALT NOSE

(Re7076) (17 SEP 73)

PARAMETRIC GATA

SCALE :	Peen. comp 80.FT.										5
	474.9309 IN. 936.7009 IN.	71. X48.	n n #	.0000 IN. .0000 IN.				BETA = AILRON = SPEBRK =	000. 000. 000.	BOFLAP =	-14.290
		RN NO.	6 . %	RIV!	5.94 GR	GRADIENT INTERVAL = -5.00/	/AL = -5.00	00'5 /0			
		8	3	5	ž	ŧ	5	3	ರ	8	5
Ş		5	}		00000	00060	09360	.01830	.60160	32670	1.84150
2.400	029.02	- Proces			01000	C9CCC -	CT560.	.01620	.66460	.37690	1,75950
2,990	22.	01667.			00010	09000	09460	02010.	. 72770	.43880	1.65620
2.990	24.690	0.00	2660	0.240	00030	90060	.09460	02810*	.76770	. 50390	1.56320
2.3	_	ocnes.			00000	00149	09590	02810.	.84920	.57790	1.46950
2.990	_	1.02270	oscan-	04440	07000	0110	(396),	01670	1.9137!	.66180	1.38070
2.990		1.12410	200	01410.	outco.		09740	06910	.96340	.74460	:.29360
2.990	33,110	1.21380	C# 360	01540	coror.	20100	00000	DEG SU	1.01270	.63330	1.21520
2.990	35,160	1.30780	10190	01560	oenen.	Gara.	00100	(36)	1.05910	.93020	1,13650
2.995	37,300	1.40610	11220	51710	.0000		Select.		0.790	1.02820	1.06720
2.990	39.400	1.50000	12160	01610	00100	00140	G8780.	CARLO.	2000	12610	1, 177.493
8		1.59350	-,13340	01960	.00130	00123	.09750	nasin.	1.131.1		04040
		.04431	00444	00045	70000	00003	.00023	60000	.02587	(1987)	
		RUN NO.	Ø.	RAVL =	4.93 GR	CRADIENT INTERVAL =	VAL = -5.00/	5.00			
			;	i	į	ē	đ	88	ರ	8	5
Š	AFFE	3	Ð	5	2	,	0.101.0	COLCU	. 50760	.27210	1.86560
4.959	20.260	STOMO.	93750	00765	General.	-100100	2000	00000	20192		1.78370
4.959	22,230	.64610	04160	-,00860	0.000	-,00119	C#640.	1.601.11	56.00	00344	CABBE
40.4	24.260	73149	04740	C690G*-	01100.	-,00130	.96160	0380	.9326.		
	24.	081780	-,05490	16600	.00050	GF100*-	02880	00100		.4307	
			- 06330	01160	06000	00140	.0843!)	.00410	.75910	36506	1.05.750
	20.03	•	02130	01149	00130	0000	.28660	.00430	. 62060		1.40799
4.933	200		01010	- 01180	.00149	50130	.08860	.00430	CT875.		1.32130
4.959	006.50	1.0000	OK BOOK		08100	-,00:50	02090	. 00430	.93230	. 75160	-
4.959	34.540		00000	00000	מני זרעי	06100	06060	.03460	.94220	.64390	_
4.959	36.64	1.291/0	00000		Crech	09100	07160,	.00450	1.02469	.93800	_
4.939	38.660		00001	24.0	Carre	(1922)	05210	.00439	1.05900	1,03619	
4.959	40.630	1.474.1	G6611	3000	Account	Alterior -	07(5)0.	.00003	.112761	.03756	04178

SATE 28 SEP 73

TABULATED SOURCE DATA - MSFC TMF 574

0

(RETITE) (17 SEP 75)

MSFC 574 (OA48) ORB 139 W/ALT NOSE

	13.750
PARAMETRIC DATA	ELEVTR = BOSTAP =
PARAY	000. H
	BETA = AILRON = SFESSIK =
	YMRP = 636,7000 IN. YMRP = .0000 IN. ZMRP = .0000 IN.
	H + H
<u> </u>	2342 7 2442 P
REFERENCE DATA	UNCT = 474,0000 SA.FT. MET = 936,7000 IN. SCALE = ,0040
	2695 474 936
	MET :: BREF :: SCALE ::
	8583

		RUN NO.		0 /192	RNT =	5.04 GRA	RADIEM INTERVAL	AL = -5.00/	8.30			
3	778	5	č		۵	ž	ŧ	3	3	ರ	8	2
5 i				8	Castro	072640	00340	.109631	06070	.42550	.19770	3.95020
	R of	0000	,		Kett	CONTO	01700	10420	CADAC.	. 59520	.11930	4.23360
		0.000			R	0.000	CECOU	06790	08950	. 59830	.13720	4.35970
	5. v	Oleca.		2 2	04140	02800	02200	00690	.03890	.69930	.16170	4.32490
	2.00	65317.			0.00	07500	02100	.06260	08780.	.63020	.20050	4.13910
ē i	9.00	CICEO.		3		06200	00200	10240	04090	.85265	.25600	3,33040
8	20.10	0.000			198.0	CCACO	.00240	10130	.04250	.9526.	.31040	3.06870
8	12.24			} §	C	6	.01240	.19060	00270	1.03320	.36610	2.80,670
	26.41				- 00000	2000	02000	02860	06670.	1,14550	.44125	2.5960%
	20.00	0.000		} {	10000	00000	00500	.10010	.05800	1.22600	. 51773	2,36790
	10.00				GUEUG	Catto	09600	.19449	06590	1,24470	.57820	2.15270
CD4.	20.53	0.000			56.0	Great	06200	10250	.04030	.85490	.25659	3.33260
Ç	GRADIENT	. D4485	19000	5 6	00194	22000	51030	-, 90305	-,020050	.04279	25700.	.10067

				i	į	ł	t	975	c	e	2
2	A1. PP-CA	ð	ğ	Շ	z	형	5	Ş	ļ	;	ì
į	•				450	COLUC	12047	04530	39110	. 12630	3.04749
Š		22060	C21C2:-		-12121	1.361.					
		4.440	25745	07800	.00280	02100	.13970	.04340	. 50940	.14790	3.44695
	7.910							24.00	64 530	17590	3.49649
705	4.080	C6929	22490	09200	2		.1317.	17617			
		7.80	- 92760	C29(X)**	(72:27)	CZUCC -	.1369	04400	.6968!	.21345	3.26440
			- 22.240	07010	177.00.7	05200.	.14410	.04610	.78110	.26050	2.99820
	200.0		7.53.		20000	600	+ R/30/3	0.1910	. 89321	.32020	2.78940
706	25.570	.936e	25550	-,01510						1 1 1	
į		108800	26950	027.10.	03350	C2700.	.1577	.05520	.99480	.38749	2.56750
				0.500	177137	COSTA	.16419	06290	1.08690	.46019	2.36250
į	14.940	1.16660								64940	2 44440
Ş	17.060	1.25360	27220	01475	01200	02020	.17165	0.1270	1.0141.1	700	
		27090	- 24220	C66CC1	29006"-	00450	.1782!)	.08330	1.14950	.56860	1.95220
*	78.137				Chatter	0.550%)	179971	CORPO	1.14690	.6374	1.79910
Š	21.180	1.29970	1917.	1319111	C # Or '				5000		07800
	10.570	93300	25249		.00259	.00250	.14870	CB670	CARAD.		7.000
•	GRADIENT	.95553	-,00542	00000*-	\$00,000	1923.42	£0000°	-,00033	.05284	.01124	.10523

RUN NO. 2807 D REVL = 6.30 GRADIENT INTERVAL = -5.007 5.00

DATE 28 SEP 73

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(R87077) (17 SEP 73)

PARAMETRIC DATA

MSFC 574 (0A48) CRB 139 W/ALT NOSE

									;		5
*	2000.0000 80.FT.	X	= 636.7000 IN.	M IN.				BETA =	66.	ELEVIR	13,750
		4146	200.	.0000 IN.				SPCORK =	066.666		•
SCALE *	0900										
		RUN NO.	0 /612	1 1 M	6.67 GR	GRADIENT INTERVAL =	/AL = -5.00/	2.50			
			;	ł	3	ē	5	CAB	ರ	e	S
ğ	AFA	,	ğ	ל	כוצ	,	20.00	DERIG	33980	.22700	1.49710
1.196	OF0	C6668.	17250	-,00110	00100	COCCU.	01133.	6880	46770	.24970	1.67290
	_	47625	20400	00350	32500	00100	111002	Chronia Chronia	00000		2,19440
		02609	-,23080	-,00560	.00250	00000	.23610	000	orece.	20.62	2.20360
		24000	25430	-,00850	09200	S2000.	.24040	Carso.	ecent.		17696
1 . 1 . 2		2	05996	91959	COSCO.	06100.	.24050	02690*	.ce19.	Caree.	
				C85.10	.00340	.00220	.24390	.07220	.92570	.4265	20010
1.196		Cococ.	20190	0.00	CONTO	.00219	.24845	.07500	1,02380	.49390	2.97789
1.196		1.19920	0.000		6	07100	.25189	.07740	1.15345	. 56350	1.95800
1.136	11.320 1.1	1.21310	29690	-,01730		Cecco	0.556	00000	1.17945	.64060	1,64050
1.13	. 17,500 1.3	1,31750	29680	-,02019	C 9127			06660	1.23540	.71490	1.72800
		1,40410	-,29715	02189	CGSCG.	06000	1,0902.	122000			1.63200
	_	CK367	28685	-, 132250	.03490	05000	.25440	1,000	1.6777	•	0 17410
2.2	•		- 24267	01349	.50359	0.00240	.24340	.07110	.9266		2007
2	Pro-	16269	91354	90105	.00016	99934	50200	10000	.05817	.01245	14000
	,	AD.	RUN NO. 186/ D	RN/L =	7.23 GR	SRADIENT INTERVAL = -5.00/	VAL = -5.0	0.5.00			
		;	:	}	ξ	ᄚ	5	8	ರ	8	S
Ş	N MARK	3	5	,	2	היייים	16445	03560	.14570	07591.	CCC69.
1.943		.14405	080en	OVERAL.	04100	CARRO	16680	.03670	.22650	17390	1,30290
1.943	1.795	23173	-,09645	-, T. K.Z.				13497	30770	07691.	1.62210
576		.31990	11250	-,00310	27100.	CANOLIC .	10001	10000	0000		1.84750
1		42080	13159	-,00330	.00149	00000	.17285	192611	3.000	-	
	_	31210	14700	00470	.00160	01000	.17450		.48170		
		61320	16339	00650	.00190	. 00030	.17580	.03249	.57100	•	•
7 . 940		0000	17520	00770	.90185	02000*	.17600	03340	.64640		-
1.963		0000	00707	רייאריירי	02500.	02000	.17630	.03400	. 71 700	Ĭ	
1.943		. reals	Const.	191191	.00240	02000	.10190	.03480	.61500		-
. 23	17.060	3.63		000	CHECKE	GCGGG.	.18470	.03630	01568.	. 50849	_
1.943	19.265	1.01270	21960	0.000.00	CALCOLO.	05000	.18819	03800	.97040	•	•
1.943	21.380	1.11585		00000	2.62.0	COLOR	.17020	.03230	.55030	3 .27449	N
.943	10,430	. 59:19:0	15733		**************************************	Caraca	E GULA	-,00062	.03856	02900. 6	117410
	COADIENT .	.04:69	00759	-,00057	11.00.00	12224					

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SEP	
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TABULATED SOURCE DATA - MSFC TLT 574

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(R67077) (17 SEP 73)

PAGE 145

C

HSFC 574 (0A48) ORB 139 W/ALT NOSE

SAEF :: UND :: SCALE ::

QLH CY CVN CBL CA CAB CL CD -,0440 .00020 -,00020 -,00020 -,00020 -,00020 -,11770 .01910 .03260 -,11730 -,05360 -,00070 -,00020 -,00020 -,00020 -,11900 .11450 .11740 .12140 -,05360 -,00160 -,00020 -,00010 -,11900 .11800 .12240 .11800 .12240 .11800 .14230 .14230 -,09970 -,00020 -,00020 -,00020 -,00020 -,18600 .18610 .1 -,09970 -,00430 -,00020 -,00020 -,12400 .01990 -,18610 .1 -,11809 -,00430 -,00020 -,20000 .12240 .01990 -,18690 .1 -,11809 -,00430 -,00020 -,00030 .12710 .01990 -,21870 .1 -,11809 -,00430 -,00030 -,00030 -,00030 -,00030 -,00030 <			R NOR	NO. 2017 9	#W/L =	4.39 GRA	SRADIENT INTERVAL	VAL = -5.00/	3.00			
475 .0916004410 .00020 .0000000010 .11770 .01910 .05260 .11730 .11730 .14450 .11740 .	Õ	AFR	5	Š	Շ	Š	현	5	CAB	ರ	8	Ş
1.490 .197700536000160 .0007000010 .11900 .01950 .16700 .12180 .12180 .2540 .2540 .00160 .00160 .00010 .11860 .01950 .16700 .12940 .12940 .2540 .20160 .00010 .11860 .01950 .16700 .12940 .12940 .2540 .20160 .00010 .11900 .01960 .23130 .14230 .14230 .1560 .20160 .20160 .20160 .20160 .20160 .20160 .1294	2.990	F. 4.	.03160	04815	.50025	00000	00019		01610.	.05260	.11730	.44900
3.540 .17470 .06210 .00040 00010 .11860 .01950 .15700 .15940 5.610 .24420 00210 .00060 0000 .00060 0000 .1200 .01960 .23130 .14230 7.660 .31240 00200 00260 .00060 00000 .12000 .23520 .16060 9.770 .36560 00500 .0010 0000 .12160 .25950 .16060 11.660 .46240 00500 .0010 .12710 .01970 .35920 .16060 13.970 .53650 .21710 .01960 .12710 .01960 .25570 16.109 .70750 .00120 .0000 .13320 .01940 .5550 .29770 20.00 .70750 .00120 .0000 .13320 .01940 .5140 .5140 .5160 20.00 .70750 .00120 .0000 .13560 .5160 .5160 .5160 20.00	2.99	1.490	.19770	-,05360	00070	07000.	DODED	.11900	.01930	.19450	.12160	.65810
5.610 .24420 07240 .00060 07010 .11900 .01960 .23130 .14230 7.660 .31240 06000 00260 .00060 00030 .1270 .01970 .29350 .1600 9.771 .36560 06970 00430 .00110 00200 .01970 .35920 .18610 11.660 .46240 09470 00430 .00130 00400 .01970 .42890 .21690 15.970 .53650 11760 00430 .00130 .12710 .01960 .42890 .21690 16.100 .53650 1270 .00130 .0000 .1300 .01920 .5550 .29770 16.100 .70750 .00120 0000 .13320 .01920 .5140 .5140 .50460 20,000 .70700 .00120 0000 .13560 .5140 .5140 .50460 20,000 .70700 .00000 .13560 .13660 .50460 <t< td=""><th>2.990</th><td>3.545</td><td>27472</td><td>06210</td><td>00160</td><td>croco.</td><td>00010</td><td>.11860</td><td>.01950</td><td>.16700</td><td>.12940</td><td>1.29060</td></t<>	2.990	3.545	27472	06210	00160	croco.	00010	.11860	.01950	.16700	.12940	1.29060
7.69D 31240 -,00000 -,00000 -,00000 -,00000 -,2000 -,1060 9.770 36560 -,06970 -,00450 -,0010 -,0000 -,1240 -,01970 -,55920 -,1660 11.660 -,6240 -,09470 -,00450 -,0130 -,0040 -,0100 -,1660 -,1660 -,2570 15,970 -,53650 -,11760 -,00470 -,00120 -,0000 -,13000 -,01920 -,2570 16,100 -,70770 -,00170 <t< td=""><th>2.993</th><td>5.619</td><td>C4423</td><td>0,070,-</td><td>00210</td><td>00000</td><td>00019</td><td>.11900</td><td>.01963</td><td>.23130</td><td>.14239</td><td>1.62530</td></t<>	2.993	5.619	C4423	0,070,-	00210	00000	00019	.11900	.01963	.23130	.14239	1.62530
9.775 .38560089790040 .0011000020 .12240 .01970 .35927 .116610 .11260 .01970 .35927 .116610 .11260 .01970 .12450 .01970 .21690 .21690 .21690 .12450 .01970 .12450 .01970 .22690 .21690 .21690 .12460 .12460 .12460 .21690 .21690 .22770 .12460 .12470 .00130 .00000 .13700 .01960 .29770 .29770 .29770 .29770 .20120 .20770 .00020 .13320 .01920 .5340 .34660 .29770 .20120	2.99	7.690	.31249	cccac	-,00260	00000	00030	.12000	.01960	.29350	.16060	1.62700
11,660 46240 -,09970 -,00430 ,00130 -,00010 ,12450 ,01970 ,42690 ,21690	2.93	9.775	.36560	C7690	-,00400	.99110	DOD20	.12240	07910.	.35920	.18610	1.93010
13,970 .53850 -,111860 -,00170 .00120 .12710 .01960 .49220 .29770 .15,072 .12570 .00130 .00130 .13000 .13000 .01920 .55560 .29770 .16,100 .70750 -,13700 -,00170 .00120 .13860 .01940 .63140 .34660 .29770 .20,061 .20,061 .20,060 .13660 .01920 .01920 .69690 .40100 .20,091 .12220 .01970 .25690 .16690 .16690 .10001 .12220 .01970 .15690 .16690 .10001 .00010 .00010 .00010 .00010 .00010 .00010	660	11.663	.46240	-,09970	00439	.00130	00010	.12450	0.1970	.42690	.21695	1.96760
16,102 .62560 -,12370 -,00610 ,00130 ,00200 ,13000 ,01920 ,55560 ,29770 ,16,102 ,70730 -,13700 -,00770 ,00120 -,00030 ,13320 ,01940 ,63140 ,34660 ,20,001 ,79400 -,13190 -,00610 ,00160 -,00020 ,13660 ,01920 ,69690 ,40100 ,5730 ,59030 -,00410 ,00120 -,00010 ,12220 ,01970 ,35360 ,16690 ,16690 ,10001 ,10001 ,10001 ,10001 ,10001 ,00010 ,00010	066	13.970	.53850	-,115.65	00570	.03120	00030	.12710	01960	.49220	.25270	1.94730
16.100 .707901370000770 .0012000030 .13320 .01940 .63140 .34660 .20.000 .79400 .13690 .40100 .20.000 .13690 .01920 .01920 .69890 .40100 .2720 .3590000410 .0012000010 .12220 .01970 .35360 .16690 .28401 .0010 .20.000 .20.000 .00010 .00010 .00010 .00010 .00010	66.	16,020		12370	00610	. 50130	00000	.13000	.01920	.56560	.29770	1.89940
80,060 .794001809000410 .00100 .13640 .01920 .69690 .40100 9.790 .39030069700697000040 .0012000010 .12220 .01970 .35360 .16690 .28401501 .00021 .00021 .00010 .02654 .00302	2.990	16,199		-,13700	07700	02100	00030	.13320	.01940	.63140	.34660	1.82160
9.790 .39030089700810 .00120100010 .12220 .01970 .36380 .18690 .28801 .00302 .00302 .00302 .00302	266.2	(S) (G)	. 79400	15090	00610	. 55185	02020	.13680	02610.	.6989	.40100	1.74290
20000. 12000. 10000. 10000. 10000. 10000. 10000. 10000. 10000.	2.990	267.6	39030	CT69C	00419	02100	01000	.12220	01910.	.36380	.18690	1.94660
		CRADIENT	17050.	0.0000	1,0004	11000	00000	.00027	nonia.	.02854	.00302	.20988

Š	AH PHA		ğ	Շ	Š	턴	ა	8	ರ	ខ	2
4.939	006		CACAC	.00250	.00150	00040	.08980	.00570	.01530	.08650	17720
4.959	1.440		04470	.00:10	.00119	00060	.08660	.00590	.05180	06790	.5893
4.959	5.470		D494D	. 50345	.99149	-,00040	.08840	G090G*	.10290	.09480	1.08480
4.959	5.480		-,05590	060XXX-	.00140	000000	.08735	.00610	.15330	.19240	1.49720
4.959	7.519		96370	-,000060	.50140	-,00060	08680.	00900	.20670	.11769	1.7577
4.959	0.870		07370	04.119	.00140	09000-	09160.	139621	.26420	.13750	1.92100
656.7	11.630		-,98449	00110	.00160	00059	.09610	.00630	.32860	.16587	1.98120
959	13.6:0		-,09560	99249	.50149	(80080	0.660*	.03620	.39050	.1965!	1.9869
4.959	15.720		19850	05320	.00140	-,000089	.15409	.00620	.45949	.23749	1.93489
4.959	17.749		12230	09200	.00150	000040	01601.	.00619	. 5288:)	.28389	1.46295
4.959	19.690		13720	Delas	.00240		.11570	.00610	.59110	.33450	1.76680
4.959	9, 590	.26960	97360	00000	.00130	5002	02060	. 1716211	.27:15:1	.13730	1.9700
	CRADIENT		54:227	75(4)(2)	00002	000000	.00046	ACKOCK!	60220.	. 99219	.22873

RUN NO. 256/ D RN/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

2 45	2	TABUL	TABULATED SOURCE DATA - HSFC THT 574	DATA - HS	FC TMT 574					PACE	C 346
	! •		HSFC	574 (OA48) (HSFC 574 (OA48) ORB 139 W/ALT NOSE	T NOSE			(867078)	SZ 23S 21) (8	. 22 -
	ATAG STATES	4740						_	PARAMETRIC DATA	DATA	
	ALC ENGINE							7136	GCG.	ELCVIR :	19,190
1000	2090.0000 SQ.FT		**	838,7000 IN.				z	88	BOFLAP =	13.750
65	474.8000 1N.			NI OCCU				SFCBRK =	066,666		
- 200	936.7500 IN.	214RP	a	.NI 0000							
		NO.	NO. 212/ 0	RN/L =	4.57 GRAD	CRADIENT INTERVAL =	AL = -5.00/	0/ 5.00			
				į	į	ě	5	S S	ರ	e	2
Š	ALPHA	5	Z.	t :	2002	- 223.80	13630	01910.	. 70245	CH211.	1,70200
C44.5	20.650	06208	15360	066110	65000	Orono.	.14270	.01930	. 76.650	.47559	1.61590
2.98D	22.660	C#260.	0.401	- 01260	02000	20059	.14739	.01910	.4367:)	. 54600	1.52670
2.995	24.750	Carrier .	- 20610	01450	02000	-,00070	.15265	01940	.9742	.6287	1.45815
2.990		CARGO.	- 22480	06610	00100	90199	.15650	.01950	.9667	. 71 500	2,555.1
2.990		1.19100	24420	0.01670	caccia.	9000	.16300	CKARCO.	1.0277		1.60.00
C	26.16	00000	0652	01790	.00130	-,0000	.16739	66.20	1.08070		
2		1.50270	C6772	01860	.00139		.17150	(3030)	1.1247.1	1.0000	07050
2	33.230	075191	00662"-	01959	.00150	-,00080	.17620	02020	1.177.6	1.16020	0.98.00
	46	24170	-,33719	02150	.00230	-,00110	.1832:)	02020	1.22819		92670
		1.07447	06696	02190	. 193240	0,000	.18690	.02120	1.28040		(4)626
2.990	10.14	9.00	- 24400	93.683	(3900)	06000"-	.16220	いるいるい	1,93199	GCG18.	1,572.1
2.993	SI CON	69050.	00964	-, 000,49	01000	10000	.00235	.020310	.02742	41.35.14	136767
		Ş	RUN NO. 213/ 9	RN/L =	4.93 GRA	GRADIENT INTERVAL =	VAL = -5.00/	5.14			
					į	ŧ	3	845	ď	е	29
Š	ALPHA	3	ş	Շ	2	2		(A) Sector	082097	.35040	1,73330
4.939	20.280	.69130	-,14349	(2600)	Calculation of the Control of the Co	0.000		09802	.67530	(1221)	1.63619
4.939	062.22	.76119	15790	-, (4.950	17,11	201132		נאלאניי	09874	.47460	1.55790
4.959		.87650	-,1759	51135	.50140	- 10012	13631.	CALSON.	. F1490		1.46720
4.939	26.340	.97670	-,19330	01170	C. (C.)			0.00	CACIAR	063690	S.342.Y
4.959		1.07720	21270	-,01360	.00180	50150	.14160	CONTRACT.	9647		1,29899
454		1.16190	CT 122	01359	::22:33	00180	100 A	Contract.	100160		1.21667
949		1.28730	24920	01480	. (20180)	00130	.15440	1360131			1.1417
		1.38730	26410		.00230	-,00170	.16:40	1000	1.00000	•	CALT.
		4.49592	-,28359	01790	. 20250	-,50210	.166.2	66.4.		• •	C. T. C.
600.		1.60080	-,39970	528(V)	.90349	012:00	117241	و درون درو		• •	01776
4.959		(7,669.1	-,31570	01839	0.6200	500 Total -	.: 1780	(1.1.91.4.	1,17271	11.52.2.1	Company .
FCE. 4		1.1882	-,23960	01369	(1227)	-,16159	12831				700,0
*C***	5	. 114969	-,00.857	!%:066	. 69019	#08/8/8/2·	Fe3:33	S 44 5.	. 120. ·		

TABULATED SOURCE DATA - MSFC TAT 574

MSFC 574 (0A48) ORE 139 W/ALY MOSE

(Ra7:179) (17 SEP 75)

PARANCTRIC DATA	BETA = ,000 ELEVTR = -20,000 ATLRON = ,000 BOTLAP = ,000 SPERK = 999,990
DATA	. WARF = 636. TODO IN. YARP = . DODO IN. ZHRP = . DODO IN.
REPERENCE BATA	SAEF x 2000,0000 SQ.FT. WARP LAEF x 474,0000 IN. YARP BAEF x 936,7000 IN. ZHAP SCALE x .00A0

MACHA CN CYN CNN CBL CA CA CL CD L/D 3-50 540 240 1540 .00400 .00000 .00400 .			RUN NO.	0 /292 '0	RWL =	4.85 GRA	RADIENT INTERN	NTERVAL = -5.00/	3.99			
5462199 .1999 .00460 .00260 .00270 .00240 .00290 .00260 .002	Š	APTA			Շ	Š	ŧ	3	3	ರ	e	5
1,440 -,1190 ,12660 ,00400 ,00700 ,00490 ,10490 </th <th>9</th> <th> 540</th> <th></th> <th></th> <th>.00480</th> <th>00030</th> <th>00200</th> <th>.00340</th> <th>08080*</th> <th>21070</th> <th>0.000</th> <th>-2.46760</th>	9	540			.00480	00030	00200	.00340	08080*	21070	0.000	-2.46760
3.520 01970 .12640 .00010 .00020 .00120 .00140 .00140 .00150<	Š	1.440			00400	cauco.	01200	.96350	.03100	11990	.07850	-1.52655
5,610. .09120 .12310 .00030 .02030<	280	3.920			00000	00000	. S122	.07740	.03090	-,72440	.07699	32135
7.710 .19730 .11270 .00100 .00100 .00200 </th <th>0</th> <th>5.610</th> <th></th> <td></td> <td>.00010</td> <td>escoo.</td> <td>CBCKY.</td> <td>06630</td> <td>.03150</td> <td>.97419</td> <td>06540.</td> <td>CT576.</td>	0	5.610			.00010	escoo.	CBCKY.	06630	.03150	.97419	06540.	CT576.
9.790 .31620 .0995000330 .00060 .07000 .03600 .03300 .30160 .11140 .11500 .44000 .0965000330 .00070 .07000 .03600 .03600 .03600 .14320 .14320 .1560000330 .00030 .00030 .05720 .03600 .46520 .17970 .17970 .15600 .66640 .15600 .03550003500035000350 .00030 .03500 .03500 .03500 .22450 .27670 .22450 .27670 .27670 .035	665	7.710			99499	.00110	croor.	.05749	.03110	.16785	.06340	2.25110
11,900 41600 -09600 -,00300 ,00300 ,00300 ,003600 ,003600 ,103000 ,14320	260	9,790			00330	09000	CHYNOG.	.95850	.03300	.37160	.11140	2.70600
13.970 .51430 .0969070650 .07040 .07040 .05770 .00500 .46520 .17970 .17670 .66420 .27670 .22450 .17970 .22450 .17640 .17640 .17640 .17670 .07040 .77770 .	8	11.900			-,00539	CYCCOS.	02000		.03449	.39700	.14320	2.77270
16.060 .61640 .104600035000120 .01900 .05600 .05760 .57670 .22450 .22450 .156.140 .17760 .11010002200012000220 .05760 .05760 .05760 .27630 .27630 .27630 .27630 .11410002200032000320 .00320 .05790 .05220 .03340 .33560 .11000000340 .00300 .00300 .00340 .00340 .0030000344 .003000032000344 .003000032000320 .003000 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .0030	295	13.970			50650	02000	.00480	05720	.03600	.48520	.17970	2.69910
16.145 .7750 .11010002400012000260 .05760 .05760 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27630 .27640 .27630 .27640	266	16,060			99559	50080	0.610.0	.05619	.03780	.57679	.22450	2,56890
20,130 .62320 .114100023000367 .05790 .04720 .35760 .35760 .35760 .05780 .05780 .05780 .11170 .11170 .05790 .05820 .05820 .105840 .11170 .11170 .25790 .05820	8	16.145			50245	90129	(2026)	.05760	02850	.66420	.27835	2.38680
9,790 31990 3100000340 09000 09000 00000 00340 31170 04450 04000001048 000100010480010600106 04000000108 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 04000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 040000 040000 040000 0400000 040000 040000 040000 040000 040000 0400000 0400000 0400000 04000000	.590	20,130			00230	(00000)		06750.	.94220	. 753(2)	.33780	2.22860
CAADIDT	8	9,790			-,00349	.00039	09000	.95820	.03340	.30510	.11173	2,73040
		CRADIENT	·		00044	700000	-,90020	00148	2000.	.04589	00231	.52907

δ	457		9	Շ	z C	ಕ	S	S,	ಕ	6	
8	600	·	.16550	.00460	C9000:-	CCSCC.	.11. 780	.03390	22115	.11010	
965	1.500	·	.14210	02100	C40000-	CTSCC.	.10370	.03420	08720	.10149	
966	3.700		.11510	-,00290	.00050	.00150	07101.	06880.	.05830	.10570	
966	5.890		.09460	00350	CYCCCC.	.00030	.19192	.03460	.19180	22140	
960	6.049		.97759	00560	.00130	.02020	.09940	.03380	.30860	.14400	
960	10.220		.05340	00930	.00149	06200.	.19219	.03460	.43330	.18185	
964	12.400		.54120	01119	.00130	.00379	06660*	.03600	.54320	.22189	
969	14.560		03470	C.69CV; -	. 902300	00500	.19939	.03950	.64650	.27160	
900	16.720		.03479	03600"-	00199	.00400	.19399	.04410	.73810	.33030	
966	16.645		.04990	91190	00039	060001*-	.19759	.05040	.78270	0.386.	
969	20.860		01070.	01270	000007	00:80	.11190	.95859	.82575	.43490	
969.	10.210	.45RRD	.95449	00930	.50145	.00300	1.6666.	.03419	.43380	.17980	2.41270
•	GRACIENT		01173	00174	351X11.	02012	90141	-,92000	.06499	-,00100	

RUN NO. 2837 0 RN/L = 5.89 GRADIENT INTERVAL = -5.057 5.13)

CATE 28 SEP 75

39 W/ALT NCSE	PARAMETRIC DATA	BETA = .050 ELEVTR = -20.000 AILRON = .050 BDFLAP = .0500 SPCBRK = 999.990
MSFC 574 (OA46) ORB 139 W/ALT NOSE		.0000 IN. .0000 IN.
		CHRP =
	REFERENCE DATA	### ### ### ### ######################

		ACN NO.	D. 264/ D	RN7."	7.06 SRA	RADIENI INIEK	INIERVAL = -5.007	Š			
;		3	3	č	ž	ŧ		CAB	ಕ	e	\$
Ę .	44.7	5		2		01000		00400	04550	.20350	420
-		19. P.	.16363	-				200	11070	02502	.193
97	1.635	04560	.:00X	05000	04000	02000					
í	3.920	36700	.06610	-,00:60	080000	00070		.06570	.17260	.71512.	
		200	04740	-,00300	05000	-,00090		.06630	.2496J	.23470	1.234
		43.500	0.0	-,05850	C6:XXC	-, poort		ecero.	.40200	.26165	1.336
; ;		20.55	0.440	0101	07240	09000		07690.	.51600	.29765.	1.732
6		200	Cardina -	1280	02200	00010		ororo.	.62440	.34220	1.624
<u> </u>	12.780	2000	0.000		00000	01000		07310	.7293	.39500	1.046
94	14.970		0.000	04440	07800	- ryyys		08870	.61640	.45280	1.607
6	17.130	. 0.651	06.50	01740	00330	00160	(3681,	CHCHCHC)	.89210	.51400	1.73540
	19.340	COSTO!	20100	C. C. C.	משבניי	00140		.0852	.95000	.56960	1.667
£ .	25.430	0.0000	01410	0.110	01200	CLCCC.		.06940	.52010	.29610	1.744
	Dec. Da	2200	2000		. 1000	223318		.UX1039	£08904	.00242	.279

		RUN NO.	0 /691 .0	RN/L =	7.22 GR	ADIENT INTER	GRADIENT INTERVAL = -5,00/	5.13			
ě	428	č	3	Շ	ž	ĕ	ర	8 3	ರ	8	2
5 5			247.30	07100	05000	-,00000	.15000	.03330	01620'-	15020	. 19
0		Dane.	0.00	Color	07000	02000-	.14740	.03340	.05440	.14900	.36
	95.	20000	C3610.	000	06000		.14320	.93260	.13750	.15260	8
			Desir.	00210	0.000	-, 120060	.14190	03260.	.2252	.16620	1.35
		01158	C6772	06200 -	COCCC.	00050	.14110	.03240	.39790	.16650	1.65
		41.00	- 01230	00440	01100.	-,122060	.13640	03260	.37920	.20769	1.62
		0.007	71890	00580	02100	-,020/050	.13420	.03330	.45720	.23490	1.91
	26.36	2000	0.00	59680	Gerana.	-,000050	.13470	06580	.54450	.26160	1.931
	000.41	00100	03040		00130	2000	.13340	00760	.62310	.32900	1.89360
		78787	03650	CBCCC.~	00100	07070	.13130	.03750	. 70140	.38190	1.43
		. 47130	04180	01030	.00110	060000	.12750	.03830	.7664:)	.43360	1.76
		40450	01190	(274(9)	. 203.49	-,000060	.13421	033300	.3779.	.20510	1.84
	GRADIEM	.04213	-,19667	-,00059	600000	000002	00162	900017	78680	.00050	52

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TABLEATED SOURCE DATA - MSFC TMF 574

MSFC 574 (CA48) CRB 139 W/ALT NOSE

PAGE 149

C

FARAMETRIC CATA

LEVIK ELEVIK = -ED.OM ODD EDFLAP = .DOM .990		
BETA : (1777) A LLRON : , 7,772) SPEBRK : \$999.9979	•	
1000 = 436,7000 IN. 4990 = 1,000 IN.		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
#5.0000 \$4.FT.	36. 7505 IN. .0049	
# b5	BAEF = 9	

	CD .06040 .07690 .07860 .10870 .10870 .12340 .17690 .17690 .24620
8.6 8.	CAB .00540 .00540 .00560 .00570 .00570 .00570 .00570 .00570 .00570
AL = -5.00/	CA .06020 .07860 .07860 .07840 .07860 .07890 .07790 .07790 .07790
RADIENT INTERVAL	CBL - DODAG -
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CM NUR	0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000
	ALPHA 510 1.430 5.440 5.470 7.900 9.590 11.610 12.610 12.600 9.560

CRADIENT INTERVAL # -5.00/ 5.00

### 1997 \$74 (0.44) ORB 139 W/ALT NOSE ### 1994 = 394,7000 IN. ### 2788 = .0000 IN. ### 1995 = .00000 IN. ### 1995 = .000		\$ \$	TABUL	TABULATED SOURCE DATA - MSFC TMT 574	DATA - MS	FC TMT 574			•		PACE	75 150 150
### SETA # SETA # 1414		: i		2	574 (OA48)	ORB 139 W/AL	T NOSE			(Re 7089)	St 438 LB) (ü	EP 75 2
### 1		!								PARANETRIC DATA	DATA	
### 10000 184, 1969 # 200.0 184,		AD DEDICE	CATA						į	Ş		-20,000
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### 599,7000 114. Tree # .0000 114. Column		474.6000 110.		8.	90 TM.					066.666		
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### ON CLN CY CYN CBL CA CAGE #### ON CLN CT CYN CBL CA CAGE #### ON CLN CT CYN CTN CBL CAGE #### ON CLN CTN CTN CDL CAGE #### ON CLN CTN CN		.0040						i				
#### CH			2	0. 1967 0	# 1/W		SIENT INTERV	M = -5.00				
#### CN					i	į	į	5	3	ಕ	8	۲9
### CAL CALLED0150000000000440 -0.0180001800018000044001800018000044001800004400180001800004400180001800004400180001800004400180001800004400180001800004400180001800004400180001800004400180001800004400180001800004400180001800004400180001800004400180001	MOM	ACHA	5	ð	ל ל	CTR		09760	.01860	.56100		1.60000
22.000 .7133002230011200007700170 .09440 .01850 .01850 .22.000 .713300223001120000010 .00010 .00040 .01850 .01850 .22.000 .200210 .0004	8.90 0		555	010	oroso		00000-	09440	00010.	.62410	•	1.72350
26.750 .08410 .09410 .09410 .01870 .01870 .25.400 .01870 .01870 .01840 .01840 .01840 .00010 .000410 .01840 .01840 .00010 .000410 .01840 .01840 .01840 .00010 .000410 .000410 .01840 .018	2.930		71550	02020-	00000	02000	00100	.09440	.01860	.66440	.41050	1.63620
### CAN	2.990			06620	03110	00000	90119	08410	00610	. 7452:)	.46120	1.34830
### CM	2.990		0120	-,03600	200	01000	00160	.09420	.01660	. 60390		24004.1
\$50.900 1.0000000000000000000000000 .00000 .01000 .01000 .010000 .	2.90 2.90 2.00		Oesos.	Oraco.		OOOAD	00120	09360	09810	eento.		1.3736.1
\$3,000 1.2257009500016500000000180 .00300 .01640 \$36,340 1.42690072500165000000001800926001660 1. \$41,350 1.426900725001610000000018001660 1. \$41,350 1.426900725001610000000018001660 1. \$41,350 1.42690072500161000000001800924001660 1. \$41,350 1.426900161000000001800924001660 1. \$41,350 1.42690016100000000180092400000101660 1. \$41,350 1.4269000	2.990		1.06000	- CASSO.	01910	00016	-,00150	07580.	.01840	.91500		1.69550
\$5.110 1.2237000350001760 .0000000160 .01600 1.39300 .01600 1.393. \$7.270 1.33950000550001830 .0000000160 .01860 1.399. \$4.330 1.317700043001910 .0000000160 .09240 .01860 1.390. \$0.970 1.317700043001910 .0000000160 .09240 .01860 1.31860 3.0920 1.3180000317 .00324 .0000000160 .09240 .01860 1.31860 3.0920 1.3180000317 .000000001000130 .0936000160 3.090000000 1.00000 .0000000010 1.0000000010 1.00000 .0000000010 1.00000 .000000	2.990		1.19200	00000		01000	05120	09260	.01640	.965:00		3501271
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30.970 1.452900439007010070100 .09240 .01860 1.41390 1.317700439001840 .000000070100 .09390 .01860 .01860 1.317700439001840 .000000070100070100 .09390 .01860 .01860 1.20000 1.042600701007010070100701007010 .09390 .01860 .01860 .0000007010 1.2000007010 1.07010	2.9X		1.33350	Decen.	6	CACCAGO	-,00190	00260.	00010.	1.04460		2/60/1
41.350 1.3177004390018400001000130 .09390 .01860 .004010 .	R. 95.		1.42690	06700-	01010	06000	00160	.09240	.01860	1.07670.1	-	OBCOME.
#### ON CAMPA	#. #		1.sirvo	2010	0.00	01000	00130	C9360.	.01860	.8673		
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#### ON QLM CY CYN CEL CA CAB #### ON QLM CY CYN CEL CA CAB ##### ON QLM CY CYN CEL CA CAB ##### ON QLM CY CYN CEL CA CAB ##### ON GLM CY CYN CEL CA CAB ##### ON GLM CY CYN CEL CA ###### ON GLM CYN CYN CEL CA ###################################		GRADIENI										
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24.20	4.93	-	.54210	01650	10000	01000	00100	.06150	0.23(14)	.54130		
26.300 .77960026900030000000003000000000000000000000000000000000	66.7		.61610	06610	00000	CACTAN	(8(7,7)	06290	OLFICO"	.60260		••
26.300 .779900350000300 .0007000090 .00500 .00420 .00420 .26.300 .003600350001000 .0000000130 .00660 .00430 .00430 .26.400 .005400350001000 .0000000130 .00500 .00430 .00430 .0054005120 .00120 .0000000120 .00510 .00430 .00430 .00430 .0043005200052000520005200052000520005200 .00530 .00430 .00430 .00460 .00450 .00430 .00430 .00460 .00	4.99		C8860.	11246	0.000	GECYPT.	00100	CASAC.	027420	.66200		
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36.630 1.2376005760015760001900039000420 36.640 1.326200654001510001900059000390 1 40.620 1.41390007000110000100001400067000390 1 40.620037500100000100001400067000420002600070000100	4.99		1.14350	DC160		(IBCCA)	CT 1001	CRASC.	00430	(HH) 76°		-
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		GRADIENT	.04319	00266	00048							

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9	_	C0010*-	. 0 66 \$0	00100		09000	.16720	03830	.07590	062/1-	0830
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		255	00230	00060	.00160	00030	.14940	04040	64910	.3ep70	
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		12160	09610	00060	0,000	CPULA -	11000	01840	37010		1.265.0
2.8		.19650	06810	06000*-	OSCUPO:	-,0006	.10670	.01050		2001	•
2.780		. 25190	07910		00000	COCCU-	.10730	.01850	DESPA.		
2.990		.31620	00610		COCCOC.	00070	.10590	01000	1316C.		
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DATE SO SEP	t t	7	DULATI	TO SOURCE	DATA - M	TABLEATED SOUNCE DATA - MSFC TLAT 574					₹	PAGE 132
				. \$	574 (OA48)	MBFC 574 (OA48) ONB 139 W//LT NOSE	ALT HOSE			(R67561)	11) (17 SEP	C 22 3
	ROTERDA	MCE DATA								PARAMETRIC	: DATA	•
200 - 100 -	2000.0000 50.F 474.0000 54. 936.7300 54.	<u>.</u>	# # # # # # # # # # # # # # # # # # #	5. 5. 8.	636.7000 1M. .0000 1M.			D < 0	BETA #	000.	ELEVTR = BOFLAP =	-40.009
		3	REN NO.	0 /122	BVL =	4.9E GA	GRADIEM IMPRVAL =	VAL = -5.00/ 5.00	2.00			
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4.99			_	-	000	00000	Decide -	04440	COPUO	-,02040	09160.	C0222'-
4.93	1.450	0100		0200	00100	Grand.		Canado	00400	02770	09040	30700
4.4	3.430	0100		03/00		190300 -		08790	00410	07550	.09250	.61425
4.3	9.4 <u>6</u> 0	09090		0000	00130	ostro.		CAPAC.	01750	12490	C1860.	1.25240
4.4	7.900	2000		02400		Carron .	07000	09160	COMO	.17610	.11260	1.56330
	0.53	26.261		36600		07000	00000	Cenen.	00430	.22630	.12940	1.76470
	11.390				00100	Cathon.	07000	06190	06700	26370	.15260	1.65620
	13.030	NII.			0.00	0,00010	00000	.De1en	.00430	33940	.10020	1.86370
					0.500	COLCO	02000	06290	.00450	.40195	.21550	1.66450
	17.750					00000	DIOCO.	.06340	.00450	.45600	.25190	1.61330
4.4	19.00	TARRET .			-	070040	00000	.06130	.00440	.16010	.11260	1.59530
7	20.0.00	0.00		92000	00035	ACKNY	E WOOG .	-,00177	90000	.n2244	00146	.23626

DATE EO SEP 73	2 23	1ABC	TABULATED SOURCE DATA - HSFC TAT 574	E DATA - MS	PC TAT 574					PACE	SE 193
			NSF C	574 (OA48)	MSFC 574 (OA48) ORB 139 W/ALT NOSE	TE NORE			(Re7062)	21 138 71) (5	C 22 3
	8680000	BEPERDICE DATA							PARAMETRIC DATA	DATA	
									COO	ELEVTR =	-40.000
b		Ė	84	636.7000 IN.				Z	000	BOFLAP *	-14.250
	MI COOS. 247		p +	.0000 IN.				SPEERIK =	999.990		
SCALE :	0900.		ı								
		100	RUN NO. 215/ 0	REAL *	4.06 CRAE	GRADIENT INTERVAL #	/AL * -5.00	-5.00/ 5.00			
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ğ		5	3	5		00120	10260	01810.	.53610	. 51130	1.72190
8.8 8.8		9119		0000	01000	00110	.10260	03610.	. 59460	.35850	1.65610
2			0000	0000	-,00039	90120	.10260	01910.	.65300	.41330	1.56150
2.90				00210	01000	00120	.10290	01910.	.71330	.47475	1.50250
2.430			024.0	01400	0,000	00160	.10190	06910.	erer.	34070	3.42540
2.50				00000	08000	00130	.10240	06910.	.62760	.61590	1.54570
0 1 N		C		07710	00000	00100	.10210	.01090	.87640	.69360	1.26610
			05760	01490	09000	-,00130	.10220	07810.	.92400	.77490	1.19250
7	33.160		02780	01620	Cecoo.	00190	.10150	09910	.9666	. 66260	1.12020
		37890	03240	01750	cosco.	00220	.10070	.0169.)	1.00270	.95190	1.05550
		.46493	0.0000	9167D	06100	0220	0966U*	.01850	1.03460	1,04160	. 3.560
		1.02990	-,01690	01430	01000	50135	.101.70	.01690	. 63060	.61700	1.34660
	8	.04141	0200	00041	90000	00005	00012	0000	.02449	.13340	
		2	RUN NO. 214/ 0	D RWL =	4.90 GRA	GRADIENT INTERVAL = -5.00/	VAL = -5.0	00.5 70			
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¥ O	153	ð	3	Շ	ž	a	5	9	46.50		1.77230
4.93	20.230	. 52520	00070	00720	00000	03160	Caron.	2000	11.5		1.69460
4.99	22.21D	58940	.0000	00850	.00050		13001.	2000	4747	35410	1.62020
4.93	24.260	09999.	cacco.	00619	.00010	C9000-	Deven.	10000	08980	06217	1,53350
4.93	26.300	.74960	00320	0.960	00000	- (77,192)		00000		47740	1.44740
		.63460	00449	06600	. 50015	20100	.09190	01700	W150.		1.36420
4.959		.92230	C9900'-	01090	09000	00110	C9860.	12900		2000	02542
		1.01019	-,01090	51270	0,00040	C21CO'-	.09500	02700	OLCOS.		
		1.09700	01310	37.0	CACCO.	00110	.08961.	.00430	.64910		00013.1
96		1.16910	-,01690	01460	CBCCCC.	00150	06960.	.00410	. 69660		Disc.
		1.27930	-, 01930	5/450	.00149	50145	06160.	.00410	.9377	•	26000
		1.36070	06220	01610	corce.	00140	.1000	06600 .			02500.1
		01926	-, (1096D	01169	OCK12:	00120	01860.				11996.1
ň k	8	.04159	00119	00044	SUXXXX.		.00077	. 00000	.02544	1,1960.	01000-

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			NEST.	574 (OA48) 4	CATE 139 W/S	MSFC 574 (OA48) ORB 139 W/500 IN. GLONE			(Re7063)	(S) (17 SCP 73	2
									PARAMETRIC DATA	DATA	
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BCALE .	0000										
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Š	ACA	5	3	Շ	CYN	3 5	Š	08690	001030	Crosc.	.17160
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8		. 10650	00800	-, 001.70	00000	2700	01460		00503	06930	3.01060
3	_	CT-80%	0000	0037d	00100	06100	oreen.		30610	07770.	3.93900
		31230	-,00000	00570	.00. 6			2000		ODDO.	4.89030
		CPC-CP	00770	03010*-	00100	R 100 -	03660	1			3.74170
ķ		2000	04400	CT800	30160	00090	07870	CK820			0.30310
ķ	•		01600	00970	.00140	00120	04890	02150	200	3011	
Ŗ.			9	00000	07000.	-,00500	.09190	0960	CLEAN.	2013	
Ŗ			- 200	01310	0,000	01000-	06370	01660.	75670	CAL 0.2.	2000
ż			2000		DECIC	0000	00000	06090	.69840		N .
Ķ		09026			OF COO	00.00	.04990	04760	. • • • • • •	•	2000
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Ķ		. 51 640	0.600	01160	*(000	- 00005	53160	CHYRA.	.04780	21.21.10°	. 69342
	GRADIENT	99970	00225	U.K.195	Parce.						
	,	RLW NO.	NO. 15/ 0	#W	6.34 GR	ADIDAT INTER	CRADIDAT INTERVAL # -5.00/	 			
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	•	00000	06900	00700	02100	-,00030	LUCIO.	2000		08440	1.66430
! !		07.181	06700	57 100	cecco.	00440	7400	116211			2.71020
		10000	00800	06900	C91CC.	00419	.07510	.026920	2002		
			07570	07.600.	cozoc.	00190	.07770	03060	.3356.		
Ę				12020	00100	00170	agaea.	.03160	.43290		30.0
į		200			00130	00130	.06390	.03400	. 51 500		Z.867EU
		23000			5	1816	0990	.93019	. 6220n		E. 75640
Ĭ	12.410	. 65990	03440	171	57500	CO . CO	100.45	.04200	.75560	00763.	2.57070
Ę	14.630	G#60#.	05450	01210		2000	00000	07670	06930	.3652!	2.38040
4	26.610	.93780	06270	01720	.00150	-16314				43610	2,15560
		1.05070	06490	01373	.00049	C#200*-	DEL CONTROL	Cook.	0.486		1.97730
		COAAA	-,04300	01560	00000	00310	.11170	.6990	3016	-	
Ę			CO 5.80	00210	.00140	00130	.96470	.03410			
Ę	10.230	.3420.	136 311			•	00000		.05176	31766.	. 54235

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AATE 28 SEP 73	t	TABUL	ATED SOURCE	TABULATED SCURCE DATA - MSFC TUT 574	FC TMT 574					
			HSFC	574 (OA48)	HSFC 574 (OA48) ORB 139 W/500 IN. CLOVE	D IN. GLONE			(Reroes)	
									PARAMETRIC DATA	DATA
	REPERENCE DATA	CATA						i	٤	evir :
	2000.0000 Se.FT.		. 636.1	636.7000 1N.			D ∢	ATLRON =	900	BOTLAP =
5	474.0000 IN.	7.	, .; , ,	.noon in.			•	S-DORK *		
SCALE :	0000									
		GE NO.		D RIVL *	6.79 GRAS	GRASIENT INTERVAL = -5.00/ 5.00	N. : -5.00/	8.00		
				i	{	Ē	5	3	ರ	e
MACON	ALTHA	5	ð	5	5	00150	.17460	.05760	26070	17410
1.206	310	orero.	.00140	OBIGO	04,00	20100	.17790	06880.	2047	.18410
1.236	1.010	. E1040	02460	270	00100	90240	37790	09860.	. 32140	onion.
1.272	4.020	33470	02690-	02500	57,00	07280	.17749	25720	43410	01622.
1,201	6.EHD	.45600	0256	00000-	06100	-,00160	.17530	02050	53620	05963
1.506	9.410		01100	DE 216	.00290	09000	.17520	.05973	2469	Cever
1.22	10.640	OFFICE OF		01460	.00260	09100	.17670	.06160	Carrie	00247
1.202	12.960		1000	01419	.00260	00119	.17910	06360	20110	01107
1.202	15.090		1366	01710	.00280	E 100	.16150	0000	CECOR.	13090
1.272	17.300	1,000	00.7	-,02030	007420	0000ü*-	.10105	orzro.	1.0000 ·	A28AU
1.202	79.460	1.16560	20077	02373	.00440	00000	.16050	0.00	2000	06608
1.202	21.540	01662.1		01730	062UG	C9000°	.17550	02650	2000	66900
3.2.5	10.690	.05887	-,01075	.,00065	\$0,000	-, 90021	92000	-,00041	, eeen.	3000
		3	6 /21	BW/L =	7.21 GRA	GRADIENT INTERVAL = -5.00/ 5.00	VAL = -5.00	2.00		
		Š							i	{
		į	3	č	3	đ	5	9 8	4	3
Ş	₹	5	1	•		-,00149	.14140	0.6250	nenza.	
N # 18		01910	09767			00140	.14145	.03310	. 11221.	
2.94			04130	٠	.00150	00140	.14100		2446	
1.657		OCC 100	05420	•	. 55145	90139	.14060	110100		
1.957		27760	0.06470	•		99139	.13620	GERZII.	•	
1.957			97519	•		C60777	drzt.	00000		
1,957		0000	06449	•	07 100	-, 00140	.15440	Dores.	•	
1.957		STECK.	(369C	•	Ī	90150	13020			
166				·	. 54245	00160	.13220		-	
1.53		2015	11,892		. n:(27)	-,99179	.1312.	135661.	•	
1.957		-2150				00160	.1287	0.2960		
1.957	,-	0926	2001	•		00130	.13121	.03050		
1.957		44660	Strange -	•		00000	-,00010	92046	16961.	
	TWOICHE		1.50.1.1							

2.0334 2.1344 2.1344 2.1344 2.1344 2.1344 1.0348 1.73100 1.73100 2.17760

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FAGE 195

1.4570 1.4570 1.21030 1.61040 1.99700 2.014250 1.99400 1.99400 1.99400 (Retpes) (17 SEP 75) .10600 .10600 .11600 .11500 .116410 .11640 .19600 .27000 .31500 .14600 .14600 .14600 ELEVTR : PARAMETRIC DATA .000. 000. CA6 .01760 .01870 .01870 .01870 .01870 .01810 .01810 .01830 BETA = ATLRON = SPORTK = 4.90 GRADIENT INTERVAL = -5.00/ 5.00 4.07 GRADIENT INTERVAL = -5.00/ 5.00 CA .10840 .10840 .10840 .10840 .10840 .10840 .09840 .00840 MSFC 574 (CA48) ORB 139 W/300 IN. GLOVE - 00100 - 00100 - 00100 - 00120 - 00120 - 00130 - 00140 - 00140 - 00140 - 00140 - 00140 - 00140 - 00140 - 00140 INDULATED SOURCE DATA - MSFC TLAT 574 -,00120 -,00120 -,00000 -,00020 -,00020 -,00040 -,00400 -,00400 -,00400 -,00400 -,00400 -,00400 -,00400 -,00400 RUN NO. 10/ 0 BUL = # J. 28 636.7000 1M. .0000 1M. 04 0.00000 0.00000 0.11300 0.1 REPERENCE DATA 2000,0000 90,FT. 474,0000 IN. 936,7000 IN. 1.410 5.800 7.800 7.800 11.700 11.700 11.700 11.700 11.700 11.700 11.700 11.700 11.700 CATE 26 SCP 73 3C& C :

1.98690 1.28317 1.98070 1.98070 1.98690 1.98690 1.98690 1.98990 1.99090

900

PACE 156

1,01699 1,148160 1,148160 1,148160 1,148160 1,14860 1, CA .00370 .00400 .07300 .07310 .07310 .07310 .07310 .07310 .07320 CBL --01100.---01000.---CTN
- 00120
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- 00000 2.310 2.400 3.400 3.400 3.400 3.400 3.500

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Column C											PACE	157
PARAMETRIC CATA PARAMETRIC	DATE 28 S	2 2	TABLEAT	TEE SOURCE	CATA - MSF	7/C 1M1 3					20000	-
Second Color Seco				S DESC S	174 (CA48) Q	RB :39 W/504	D IN. GLONE			(Re7064		
### Company Part Pa				!					•	MARAMETRIC	DATA	
## 14.4 *** *** *** *** *** *** *** *** ***		REFERENCE	: DATA							Ş	ELEVTR =	900
1.00 1.00		P. 60 COOL COM	T. XIEP	93	90 TN.				X	666		
## 956,7002 14. *** The Part of Mark		ATE MAN IN.	YMER		DO 1N.					066.66¢		
### CHAPMINO, 137 O NOVIL = 4.52 GRADIDM INTERVAL = -5.007 5.007 #### CHAPMINO, 137 O NOVIL = 4.52 GRADIDM INTERVAL = -5.007 5.007 #### CHAPMINO, 137 O NOVIL = 4.52 GRADIDM INTERVAL = -5.007 5.007 #### CHAPMINO, 137 O NOVIL = 4.52 GRADIDM INTERVAL = -5.007 5.007 #### CHAPMINO, 137 O NOVIL = 4.52 GRADIDM INTERVAL = -5.007 5.007 ##### CHAPMINO, 137 O NOVIL = 4.52 GRADIDM INTERVAL = -5.007 5.007 ##################################		936. 7000 1N.		ģ	80 IN.							
### ON CLAY CY CYN CEL CA CAG 1,09390 1,09390 1,02490	SCALE *	C+00.			;		HENT INTERV	AL = -5.00				
March			R.N. NO		¥				ļ		8	2
######################################			į	3	č	N.C	ŧ	5	3		.44612	2.26970
### Color	¥		8	3	-,03350	.00150	00200	.05130	06060.	00137-1	.52390	02660.3
### Colored Co	186 .		1.11360		03119	COCCC.	-, 50590	.05490	00960	. 06:40	. 56320	1.66430
### Color	5 6.		1.217	0.000	C6060'-	06010	-, 52630	00000	09990	02250	.56570	1.70070
### Color	ę.		20000	01961	03130	.07250	-, 20290	02696	06460	94580		1.55470
25.050 1.28710 1.28210 -0.02500018000250 .007020 1.0850 1.00707 1.0850 1.	166 .		1.11410	0.5340	02500	COCCOCO.	-,00360	.07510	06.70.	08866		1.45660
95.050 95.050 95.050 95.050 95.050 95.050 95.110 1.351	Ĕ		1.15210	070	-,02360	-,00160	00480	.07349	20100	02020	.76190	1.36740
\$5.000 1.3510 0.0350002600 .00340 1.0870 1.0870 1.0870 1.0870 1.0870 1.0870 1.0870 1.0870 1.0870 1.0870 1.0870 1.0870 1.0890 1.0870	Į.		Cacoa.	04280	-,02249	00200	-,00590	02040	C9690.	1.06610	.83260	1.28010
\$5,119 1.53110 0.0350002160 .00370 .003500 .00370 1.10370 1.20200 0.03500 0.0350001500 0.03500 1.10370 1.10370 0.03500 1.03500035000350003500 0.03500 0.03500 1.10500 0.03500 1.10500 0.035000350003500 0.03500 0	Ĕ		1.28734	02750	02670	02100	-,00700	00890	01500	07780		1.20070
### ON CASE	E .		1.55115	09280	02160	.00140	0.970	.06460	0.000	0.2570	.98250	1.12530
### ON CAMP003000040000300 .003500 .003000 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .00300 .0030	Ĕ		1.43400	07570	00310-	-,00180	-,01010	.06190	Care.		1.04440	1.06150
##### 1.5520	Ķ	_	1.47730	06560	51.690	07000	00600*-	.05560	C6760.	08840	.68110	1.45120
### ON CBL CY CYN CBL CA CAB #### ON CBC CYN CBC CONCROL 101660 101660 101660 ##### ON CBC CYN CONCROL 100200 101660 101660 101660 ##### ON CBC CYN CONCROL 100200 101660 1016	Ę	_	1.32210	08550	-,02370	00149	00460	00570.	The contract of	.00361	.02927	-,05853
### ON CLM CY CYN CBL CA CAB CABOLENT INTERVAL = -5.00V 5.00 #### ON CLM CY CYN CBL CA CAB CABOSO	Ŗ	30.90	01959	90600	7,000	50024	00003	12000				
#### ON CLM CY CYN CBL CA CAB CL CACA CL CAC				,			DIENT INTER	VAL = -5.0				
### ON CAM			7 72									•
#### ON CAM CY CYN						i	ŧ	ð	880	ರ	8	ראם .
### 1.550			3	ş	Շ	N C	1	09440	.01660	. 5695		1,566:50
26.590 .74490 06360 01250 .00050 .09460 .01600 .71790 24.600 .63390 01250 .00050 .00440 .01670 .76150 26.600 .63390 01260 .01370 .00250 .01670 .76150 26.600 1.01410 01360 .01370 .01370 .01370 .64220 26.600 1.01410 01370 .00130 .00420 .01390 .98970 20.600 1.10400 01960 .00140 .00130 .00420 .01390 .98970 20.600 1.2040 01960 01970 01330 06600 01960 01960 01960 20.600 1.2040 01960 01960 01960 01960 01960 01960 01960 20.600 1.1220 0250 00360 00400 01960 01960 01960 01960 20.600 1.11220 11220 00150 00150			03699°	07660	01170	0000	- 07240	09400	.01860	.65140		1.6860
### 1.0000		-	.74490	06360	00210*-	Carron.	00200	.09460	09910.	.7179		0.6440
### 1.014501000010000015600020000200 .00520	3		.63350	09210	0.6210	Ditto.	-,00260	.09440	07810.	.7815	. 49995	1.47959
20.690 1.01410 11990 01770 0170 01700 .01990 .08970 30.640 1.10600 11790 01770 01700 01960 .09570 .09570 .09570 .09570 .09570 .00570 .09570 .09570 1.00570 1.00570 1.00570 1.00570 1.00570 1.00570 1.00570 1.00570 1.10570	¥.×		06226		0.510	07/7/40	-, 00200	02560.	.01900	.6422		1.36100
\$3.040 1.12640117900194000330 .09630 .01960 .93710	7.3		1.01410	10010	2010.	02100	-,00319	00960	.01950	. 669		. 29765
\$\$.040 1.2049012620019901 .000720 .09640 .01960 1.00720 \$\$\$.140 1.299901363001990 .00720 .00540 .01990 1.05510 \$\$\$.140 1.299901363002200 .0072000380 .09640 .01990 1.05510 \$\$\$\$.240 1.396001463002200 .0072000400 .09570 .02000 1.09570 1 \$	8.8		1.10660	11790	01100-	27.00	-,001330	.09630	.01960	.9571		0.28.20
\$\$.140 1.2993013630013510	8		1,20450	12620		CE COO	06200-	CK7960°	09610.	1.0072		0467
\$7.240 1.390701463002200			1.29930	13650	019.0	COROCO	00389	.09640	01990	1.0551		
\$6.340 1.69501967002510			1.39673	14830	00220	•	CONTO -	07560.	COCZU.			004100
41,350 1,590401759002520			1.49550	13970	02310	•	00440	.09610	010201		-	1.00/20
90.990 1.112201176010046			1.59040	17390	-,02520		CCSDC -	09260.	.01960			0.0000
GRADIENT .044730045800368			1.11220	11765	01780	•	01000	.0001	90000		0 .03871	1
	•	.	.04473	-,00458	99000"-	-						

かいというけいというのは、大名のは、はいかいは、これには、かいとうないというないのは、ないないないないないないないないないないできます。 養養者を存在は変りをはなるなど、大名を表することが、これには、

DATE 20 9C	r 5	TABLE	TABLEATED SCHOOL DATA - HSFC TUT 574	: DATA - MS	FC TUT 51	2				PACE	156
	•		200	574 (OA48)	ORB 139 V	MSFC 574 (OA48) CRB 139 W/500 IN. GLOVE	ų		(R67084)	4) (17 SCP	. 25 .
	METEREZ	CE DATA							PARANETRIC DATA	DATA	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2680,0200 54.7 474,8220 IN. 934,7220 O.V.	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# # # # # # # # # # # # # # # # # # #	656.7000 IN. .0000 IN.				BETA = AILRON = SFEDRK =	000° 000°	ELEVTR = BOFLAP =	000.
		RUN NO.	0. 12/ 0	RN/L ×	6.9	GRADIENT INTERVAL =	/00"5- = TVA	00.5 /0			
			3	۲	ž	ŧ	5	CAB	ሪ	e	S
		5			00000	•	02970.	09700	.49690	.26900	1.67460
			CEULO -	07600	08000	•	.57860	.00490	.55700	.31219	1.75460
R		22.22	07490	01040	ONCOO.	•	01670.	00500*	.62185	.36710	1.69360
			- 00000	02210	07000	•	. 08030	.00510	.68890	.43030	1.60060
Rea:			02250	01320	05000	•	.06200	.00519	.75520	. 50110	1.50700
	20.02	C9769.	19100	~.91365	CBCCC.	000260	.08350	.05500	.61600	.57745	1.41670
		1.00000	11230	91600	09000	0 00349	.06560	.00530	.87400	.65800	1.32630
		2000	12280	0.01600	cerce.	0.500370	.06800	.00540	.93260	.74900	1.24520
		200	0.13350	01960	303.60	•	.06830	.00540	.98360	.84085	1.17000
		1.30610	1433D	06020-	.90190	•	00166.	.00530	1,02700	.93830	1.09450
	6	47400	15290	02120	8:03	0 00440	.09260	.00539	1,05860	1,02980	1.02780
		007.00	02101-	01230	050030	'	.58420	.00540	.61770	.57800	1.41465
	C-4015107	.04562	-,00,459	00066	90000	•	.00078	.00003	.02833	.03793	04198

TABULATED SOURCE DATA - MSFC TMT 374

MSFC 574 (OA48) ORB 1598 W/H19

(Reroes) (16 JUL 75)

PAGE 159

PARAMETRIC DATA

.000. 050. 19.000 ELEVTR = BOFLAP = TRIMER = 000. BETA = ATLRON = SPCBRK = .N1 0001.88 .N1 0000 . .N1 0000.

XPRP TPRP ZPRP

REFERENCE DATA

2.27700 5.5370 5.5370 5.53170 4.21920 4.30740 5.6950 6.75110 6.35120 4.35120 CO...05960 .05860 .06230 .06840 .11110 .115620 .25520 .25520 .25550 .31940 .11010 CAB .02990 .02990 .039090 .03210 .03210 .03210 .03540 .03540 .03540 .03060 6.31 GRADIENT INTERVAL = -5.05/ 5.05 5.01 GRADIENT INTERVAL = -5.00/ 5.00 CA .05930 .05730 .05730 .05320 .02670 .02630 .02680 .02680 .02680 .00190 .00000 .00000 .00090 .00100 .00100 .00100 .00100 .00100 -.02550 -.00870 -.00065 RN'L = RUN NO. 501/ 0 04890 .09090 .09090 .09090 .07090 .07260 .07260 .07360 .01600 .01600 2690,0000 58.FT. 474,6000 1N. 936,77000 1H. 20.300 9.940 RADIENT 9.94D 12.06D 14.15O 16.24D 18.34D 2.490 1.540 5.630 5.710 7.800 SCALE ::

1.0 -1.10620 .46030 1.64010 2.74000 2.96220 2.72360 2.72360 2.72360 2.72360 2.72360 2.72360 2.72360 2.72360 2.72360 2.72360 2.72360 2.72360 2.72360 .07250 .07240 .07340 .108500 .10160 .18970 .21610 .247500 .16760 CAB
.02960
.02970
.03100
.03100
.03240
.032410
.03420
.04210
.04770
.05500
.05470 CA .07160 .07240 .07420 .07420 .07500 .07590 .07590 .07860 CR.
.00350
.00360
.00370
.00270
.00270
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.00280
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.00250
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.00250
.00250
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.00250
.00250
.00250
.00250 CY
-.00510
-.00690
-.01190
-.01270
-.01270
-.01270
-.01270
-.01470
-.01560
-.01560 CN
-.06060
-.08720
-.16510
-.26730
-.40230
-.52630
-.75463
-.101670
-.101670
-.25290
-.101670
-.25290 -.460 1.549 3.780 5.980 8.120 10.330 12.520 14.740 16.950 19.960 19.320 19.320

CATE 26 SEP 73

241F 20 SEP 73	SEP 73	TABU	TABULATED SOURCE DATA - MSFC TUT 574	E BATA - HS	FC TUT 574					PAGE	.t 169
			HSFC	574 (0446)	MSFC 574 (OA48) ORE 1398 W/M19	H19			(Re7065)	(3) (18 JUL 73	, er x
									PARAMETRIC DATA	DATA	
	REFEREN	REFERENCE UNIA							Š	C) FVT	000
	98 0000 Cee4	Ser.	H	656.700 IN.							000
	#1 000m	:	*	.DOCO 1N.					Con.		2
	NI COLLEGE		11	.NI CCCC.				SPOBRK :	66.666		
SCALE =	C9*CQ*										
		RUN NO.	NO. 903/ 0	FRVL =	6.74 GRA	GRADIENT INTERVAL =		-5.00/ 5.00			
				i	į	ŧ	5	CAB	ሪ	е	2
¥O¥	•	3	Š	Ե	בל ב ל	4	Cappa	00980	01330	.16950	06940.
1.196	GPC 8	.01230	06790	00370	07500	oracro.	00001	08880	00981	37350	. 79380
1.196		.14325	.02740	-,00560	.00260	G620G*	10801	20000	22.0	COLUT	1.45400
		.26430	06900"	00760	. 50295	.90160	1676	necco.		2000	1.69710
		.4162	-, DD64D	99789	06200	0.200	.16445	Deco.	COCCO.	0.014	2,13290
		53740	01240	01600	57575	90169	.16100	.03640	Derice.	2000	2 24591
	•	A6.76)	01790	01249	01500.	.90183	.15770	.05880	.6267	CENTS.	
1.190		200	OSUAL!	91210	.00259	.00150	.15369	.05900	.75420	. 55155	6.67035
1.17			CE-OST.	-,91469	.90050	02000	.15270	.06620	.87260	.39540	2,50000
2.1.2			0000	01545	.00250	00040	.14945	01690	.96290	459.8	2.1961.2
2.136		00000	Calle -	CC910	.00240	-,96139	.14750	.07119	1.05690	. 53425	1.97650
1			03/20	01680	.00230	0007	.14570	(1912/11)	1.13315	. 60184E	1.002
1.1		20113.1	0,000	67116-	00300	00.200	.15770	.08780	.62921)	.27940	2.2313
*	10.700	00290	97600	(16/3/2)	.0000	~. none1	-,00047	-,000005	07920.	SUZUG.	- SI 7.
							1 171	5			
		2	RUN NO. 5177 D	RNVL =	7.01 GRA	CRADIENT INTERVAL = -5.00)	VAL = -5.1				
			;	ð	Š	ē	ð	CAB	ರ	8	2
Š	<	8		-	1000	06000	.1397	.03219	-,00620		04500
1.954		Carco.	2000	- 100.80	00150	06000	.13780	.03240	.07470	.13990	. 53419
	_	COOLS.	00000		33.65	09000	.13919	.03200	.16940	.19067	1.12419
1.954			00000	0.00	0.00160	. 52,004	.13549	.03140	.29210		1.55020
1.0%			201100	00000	ראינאיו	GEOLG.	.13149	066201	.33910	.18155	1.86770
1.934		36130		00000	CA3677	0.00040	.12700	05620*	.42019		2.03780
1.954		1500	יחופכה	1000	CK 102	CALTER	.12200	.03150	.49550	.23579	2.19239
1.954		. 53500	01730	Cathorna -	Ca ton	Contract	01711	.03200	.57639	.27350	2.19850
1.054		OCK 29.	010.	06000	Carro	05000	.11550	.03220	.6584!)	.32520	2.05500
1.934		73430	13610	036000	04.00	COLONIA	.11373	.03440	.75839		1.96719
1.9%		. 643 X	1,000,000	00000	D. COLO	ניקנוניי	07011.	03719	.63200	.44390	1.87430
1.954		.93650	-,52319	001107-	03.00	CALLACA	.12490	.03919	.4172	.20340	2,05100
1.95	_	.44715	-,01530	1.261.1.	*Contract	10000	51000	- CONTRACT	.04124	69200*	.27434
	GRADIENT	.04376	-,00260	(9,9,54							

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1	1	*****	YARU ATER SOURCE DATA		MSFC TUT 574					PACE	161
CATE 26 SEP 73	c								(887065)	1) (16 JUL 73	. 25
			MSFC :	574 (OA48) O	HSFC 574 (OA48) ORB 1398 W/H19	<u>6</u>					
								-	PARAMETRIC DATA	DATA	
	REFERENCE DATA	DATA						į	5	EVTR =	000.
•	Total community State	FT. XMRP	.NI CCCT. 858 =	DO IN.				0E1A -	66		.000
	474.8000 IN.			.N1 0000.					ມີ66°666	TRIMCR =	19.229
	936.7000 IN.	274RP	;GG*	.NI GGGG.							
*	0960										
		RIN NO.	0, 521/ 9	RN/L ::	4.19 GRADI	GRADIENT INTERVAL =	AL = -5.03/	00.5 /0			
					į	į	t	CAB	ರ	8	5
9	ALPRA	8	₹	Շ	z i	(A)	3	.01750	02640	.11050	09612'-
E. 980	-,490	02743	01290	-50115	necron.	0000	06701	.01780	.02490	.10860	.22930
2.990	1.440	09120	01000	02100	00000	05000	69761	.01800	.08130	.1980	.74060
2.990	3,510	G6790.	00750	06000	OSCUPA.	02000	.19130	01910.	.14170	.11570	1.22460
2.990	5.590	.15230	99719	06000	Cecco	09000	.09840	00910.	.20409	.12670	1,61010
2.990	7.640	01612.	09670	origo-	COCCO	02000	02560.	.01730	.26600	.14230	1.869(1)
2.990	9.740	.20630	-,00670	-,00160	Cacco	CACAC	09360	.01830	34160		2.04090
2.990	11.650	36870	00849	00000	COCCU	96000	02160	.01639	40130		2.07380
2.990	13.900	.43610	-,00629	06700	Correct	.00039	02690.	.01830	. 46940	.2274D	2,56590
2 . S	15.990	. 51390	-,90645	-,160465	Carrier .	Carren	06990.	.01830	53930	.26760	01610.5
2.990	16.060	.59580	-,59629	00400	COUNTY OF	08000	.08550	.01850	.60415	.31150	1.93890
2.990	20.050	.67430	-,50765		19000	09000	07560.	.01800	.27370	.14410	13868.1
2.990	9.740	.29410	00673	00160	0.000	50000	99143	21000.	.02693	00517	.24507
1	GRADIENT	.02663	.00135	-,00020	oroza.	•					
		S. NO.	NO. 522/ D	RN/L =	4.96 GRAD	GRADIENT INTERVAL =	VAL = -5.99/	00' 8'00			
							į		c	8	2
į	A1 D44	ð	ð	Շ	S S	ಕ	ა ქ	9 5	04950		48020
5		04120	02730	.00140	07000	07000	.08410	04.400	00100		01260
	1.410	0,6000	02389	.00110	. 00030	09000	Carac.	CYPTO	03770		.45260
	97.	CT210.	01740	06000	.0007	02000	Centro.	רופאראנו	.06100	00590.	.95380
	2.470	.06385	01620	-,190060	00000	19663	03460	00500	.12940	03260"	1.40240
900	7.490	1.150	01173	-,0000	cappa.	120001	2000	CO. CO.	.18350	.19469	1.75330
246.7	6.597	.19835	00.600	-, 90000	06000	02000	00140	02500	.2429	, ,12329	1,97130
956	085.31	.26280	-,96719	-,00019	.00016	20100	COLUMN.	10800	.30340	14660	2.06910
40.0	13.640	07621	90730	00140	00000	01100	COURT.	0.2504	.36060	09941.	2,07490
4	15.600	40070	00550	50150	-,00030	00110	02120	05300	.42925	06115. (2,02540
940	17.735	.47330	-,90440	-,00230	CHOCKE.	12170	10000	02500		00152, 0	1.56890
940	19.645	.55000	-,00340	00450	ن5انات.' '-	261.27	0.840	60500		.1965U	1.60370
656	195	.20720	-, 02:96:	07 100, -	02000	usucu.	10000	Activity		•	.23731
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			MSFC	574 (OA48) (MSFC 574 (OA48) ORB 1398 W/H19	5			(part ux)		· }
		•						-	PARAMETRIC DATA	DATA	
	REFERENCE DATA	CE DATA									8
	1			ese mon 1N.				DETA =	G. C.	ELEVIR -	1
# D¥	2680,0000 86	. L4.5		OCCU.			≺	ATLRON =	606		
-	474.8000 IN.						•	SPDBRK *	3	HIPS =	5
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		ELN NO.	0. 90e. o	# JAW	4.95 GRAD	GRADIENT INTERVAL =	/AL = -5.00/	8.30			
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2	ALPHA	5	ş	Շ	Ē	.	5		0398	39500	2.44070
		1.04300	.11400	03000	.00340	00410	01630	2000		44730	2.24630
		12240	13300	02620	.00240	00100	00030	00000	00000		2.03660
Ŗ.		. 13710	15390	01770	CAZCO.	010%	. 1222:	13001	200101		1.65210
Ŗ			18475	02090	.00510	00810	06930.	07.70	1.0440		1.66350
Ė			200		01400	00270	.03410	05840.	dreen.		4410
		1.66/187	01110	-,03060	.00140	.00450	.03810	.06390	1.05950	21500.	4444
Ķ		1.500.0		01870	001 70	-,002m	.03750	00890	1,06350	0.467.	
Ķ			40.00	-,41670	07000	ore:-	.0366	06990	1.12540	00100	
į	•	1.40		100440	00020	00100	03590	.09110	1.16990	95/56	
į		1.49910	06941.	10000 C	COUNTY -	00110	02620.	09260.	1.21370	1.03690	Denzi.
Ķ	36.450	1.59600	1043	110000	1	CKOOK.	0820	03560	1.25050	1.13410	1.10260
ě.	41.390	1.66600	.19520	-,02350			03860	coent,	1.05910	. 6e39n	1.54867
•	31.160	1.26020	.23030				2000	226140	.01137	00550.	-, 06501
}	GRADIEM	.02665	90800	90000		602230	0				
		S MIN	MO. 524/ D	#WL =	4.09 CRA	DIENT INTERN	CRADIENT INTERVAL = -5.00/	00.8 /			
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		ð	Z	Շ	Š	ŧ	5	3	d	3	
Š		3	07600	000030	-,050310	00030	02590.	.01650	00909	SELECT.	00000
2.3		ornes.	Carrier -	19200	00030	060000	00890	00610	.67100	CACA.	1.0.1
2.400		, WECO		CEOCA	05070	-,00040	07190	.01930	73965	.4312	See 17.
E. 880	-	. 8322D	00100	Or our	Carrier -	-,02050	coceo.	01830	. 60630	.49920	1.619.1
#.980		24876	000 TO.			G70000'-	00970	02610.	.87450	.57290	1.5826.1
2.90	CP4.82 OF	1.04250	C0020*-		0.000	2000	07560	02610.	.93610	.65370	1.43500
2.980	31.070	1.14090	02200	01160	OFFICE OF THE PERSON OF THE PE	CIBCOCO -	0000	(20,902)	.99540	.73960	1.34540
2.990	33,800	3.25eD0	36460	01450	-162010	00000	00000	01010	1,04319	.82670	1.26170
		1.32910	OE860	01560	GENEG.		03370.	2000	100567	.92700	1.16190
		1.43340	02750	01740	02100	00110	01170.	25610.	4 4 4 9 4 5	1.03250	1.10610
		01975	-, 03350	01910	corco.	00139	.0694:1	C.C. E. I.			2.04170
Z			03550	00610	02000	00120	.06700	.01920	1.1691.1	360:1:1	
8.990		1.610.1		6	02000	:::::::e::	.07530	01610.	.94410	01/69.	
2.990	2000	1.14760									
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MSFC 574 (OA48) CHB 1598 W/H19

(Re7066) (16 JUL 75)

PARAMETRIC DATA

PACE 163

!	000°		1.51700 1.51700 1.51590 1.51590 1.51590 1.51590 1.12180 1.12180 1.12180 1.12180 1.12180 1.12180 1.12180 1.12180 1.12180 1.12180
•	.000. .000.		
	ELEVTR = DOFLAP = TRIMER =		.26250 .26250 .36240 .42860 .49760 .57510 .98160 .98160 .38070
			. 50320 . 50320 . 56760 . 60360 . 7680 . 7680 . 94030 . 1,01300 1,10120 1,10120 1,10120
	BETA = AILRON = SPECRK =	5.20	. 10.480 . 10.480 . 10.810 . 10.810 . 10.820 . 10.820 . 10.810 . 10.810 . 10.810
		VAL = -5.0	CA .07140 .07120 .07130 .07190 .07190 .07100 .07240 .06650 .07240
		CRADIENT INTERVAL = -5.00/	CBL
		4.95 CRA	CYN , COODD
	636,700 IN. .0000 IN. .0000 IN.	RN/L =	CY -, 00530 -, 00590 -, 00570 -, 00710 -, 01130 -, 01390 -, 01570 -, 01570 -, 01570 -, 01570
		0, 523/ 9	0.44 005 to 00740 00720 01110 01520 02690 02690 02690 02690
<u> </u>	MARY ZIER	Re NO.	CN . 56319 . 64239 . 72990 . 91293 . 11370 . 11370 . 11370 . 11370 . 113190 . 113190 . 113190
PENCE DATA	i Zžž		
AETENENCI	2690,0000 98.f 474.8000 IN. 936,7000 IN.		20.310 22.240 24.300 26.370 26.370 26.370 37.460 38.610 36.760 36.760 36.760 40.640 40.640
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NEW COLOR STATE		¥ !	TABUL	TABILLATED SOURCE DATA - MSFC TUT 574	CATA - MS	FC 7MT 574					PACE	ĭ
### PARAMETRIC DATA ### ENDINGE DATA ### ENDIN	DATE EF S	2					•			(RATOR		. 22 ,
Page				MSFC.	574 (OA4B) (ORB 1595 W/H	61					
### 10.000 BLVW = 10.000 IN. ### 10.000 IN.		Por Carraga	DATA							PARAMETRIC	CATA	
		1	<u> </u>							2	S STATE	233
	μ	7.96 0000.0004			700 IN.							900
		474.8255 IN.		8	YOO IN.					600		19.000
Color		956. 7005 IN.	214RP	·	300 IN.							
### OR CA	ы	.0040										
Column			3				SIENT INTERV					
### CH						į	į	3	CAB	ರ	8	2
1,10,360 1,22,160 1,14,10 -1,01,170 1,02,40 1,03,10 1,03,10 1,03,10 1,04,10	¥ OX	PETA P	8	ğ	Շ	2	3		08880	. 51620	.11400	4.52670
-4.470 188180 -00020 100020 100400 0.01862 0.02400 0.02400 0.03570 -49850 114170 -4,400 0.03570 -29850 0.03570 -49850 114170 -4,400 0.03570 -39850 0.03570 -49850 114170 -4,400 0.03570 -39850 0.03570 -49850 114170 -4,400 0.03520 -39850 0.03570 0.00570 0.00570 0.00570 0.03570 0.03570 -39850 0.03570 0.00570 0.00570 0.03570	*	-10.360	. 52815	.05780	.17410	01760	56730.		03810	90970	.11470	4.44115
	*	-6.470	. 521.00	00000	.14500	01023	20071		07760	. 50110	11420	4.38460
-2.300 . 30250006400073000640007300044011370113	*	-6.440	.51330	.06330	.10640	01190	09610.	CARSO.	07880	.49950	11410	4.37560
-1.540 190530 100540 100550 100350 100560 103250 105250 10	85	-4.400	31170	.06540	06390	00750	0610.	0000	09650	49360	11500	4.29110
340 .90430 .0711000670 .00330 .02660 .03260 .49270 .11370 .49280 .49280 .11370 .49280 .11370 .49280 .4	*	-2.390	. \$0630	.06880	09630	00320	0000	2000	1000	49210	.11360	4.33120
1.000 .00000 .00000 .00000 .0000 .00000 .0000 .0000 .0000		. 340	. 50430	.07115	00670	00000	06500	00000	COCK	09267		4.33190
5.750 .90390 .0049012420 .007000270002700 .49360 .11110		0.00	30300	08070.	C. 24473	00360	-,50140	00000	Corec.	70320		4.33635
### 5.9990 .0641012490 .0134001240 .03740 .03740 .49220 .11250 .49220 .03340 .49220 .11250 .49220 .03350 .12440 .002010012410 .03740 .03750 .49490 .11250 .49490 .002010 .002010 .022010 .02210 .03750 .49490 .11250 .49490 .11250 .49490 .002010 .002010 .02220 .02220 .0	1	3.720	. 30530	C979C.	06230	27.700	00100	6.4926	Casec.	69.67	11410	4.32390
7.000 - 30350 - 16330 - 0.063001640026010364009409940 -	1	2.790	.50590	01790	12450	.01340	01290	01120	COMPCC.	00007		4.33520
9.900	1	7.800	30430	06390	16330	09010	01640	12660	Carrer.	40145		4.37270
### NO. 510700750 .00000 .00250 .0			06006	06190	19490	01020	02210	07620.	3860.			4.30460
### ### ### ### ### ### ### ### ### ##	1	5	01497	06170.	00799	00000	.00350	CC720.	06266	Seese.		-, tym 84
### NO. 510/ 0 FN/L = 6.23 GRADIDNT INTERVAL = -5.00/ 5.00 #### CN		CAADIENT	-,00067	SCOOL	01625	.00164	00251	10000	Trans.	200		
### CA							מוסת ואוסגי					
### CN CLM CY CTW CDL CA CAB CL CACC CAG CAG CAG CAG CAG CAG CAG CAG CA										i	1	•
-6.40	į	į	3	X	វ	ž	ę	5	3	ď	•	
-0.000	5		46400	04350	19740	01590	06220.	.06640	08880.	. 53460		
	8	Pre-01-	2000	0000	16060	01430	06020	02690.	03640	. 52520		3.13640
-2.340 .35960 .05520 .07270 .00360 .0150 .07540 .03540 .50920 .18030 .18030 .18030 .18030 .18030 .18030 .18030 .18030 .18030 .18030 .01550 .00350 .015540 .015540 .015540 .17030 .17030 .17030 .17030 .17030 .17030 .015570 .00450 .00450 .07440 .00440 .180300 .180300 .180300 .180300 .180300 .180300 .180300 .180300 .180300 .180300 .180300 .180300 .180300 .180300 .180300 .1803				1000	.11850	07900	09910.	.07210	07960.	. 51900		2000000
340 .33500 .03540 .00110 .00050 .07450 .0350 .51260 .170700 .17070 .17070 .17070 .17070 .17070 .17070 .17070 .17070 .170700 .17070 .17070 .17070 .17070 .17070 .17070 .17070 .17070 .170700 .17070 .				04150	07270	00400	.01160	.07130	.03340	2005.		0.000
350 .35370 .0567000950 .00060 .07440 .03420 .51510 .17070 .16970 .23570 .0557000970 .00060 .07440 .03430 .51350 .16930 .16930 .33740 .03530 .0557000670 .00060 .07440 .03440 .51350 .16970 .16970 .23730 .05450006730 .0141001460 .07780 .03780 .51350 .16970 .23730 .0526013330 .0141001660 .07780 .03780 .52170 .16930 .16930 .23280 .04320 .25280 .0167001670 .07780 .04430 .32210 .16690 .16930 .01670 .00120 .07780 .00120 .07780 .00120 .07780 .00120 .07780 .00120 .07780 .00120 .07780 .00120 .07780 .00120 .07780 .00120 .07780 .00120 .07780 .00120 .07780 .00120 .07780 .07780 .00120 .07780 .				04140	03110	OBCOO.	.00560	.07490	09880	.51260		0,000
350 . 353503545000570006000744003450513501883703555035550085700060007440034605135018870353500847008470014600735003760513701881052800043017750014100160007260072605217018810528000432020350018700187007240043052210168902436004320203500187001870072400350052210168901739024360053400187000120077300350007730	Š	-2.440	00000	0.000	- 0009C	.00250	cecco.	.07549	.03420	. 51319		0.010.0
1,725 .33330 .03430 .0141500460 .07440 .03440 .1550 .16970 .16970 .31760 .03540 .03540 .16970 .16970 .31760 .015400 .03540 .51150 .16810 .05520 .03520 .0141501460 .07260 .07260 .51150 .16930 .7.5430 .5430 .01475 .0167001670 .07260 .07260 .0430 .52210 .16930 .0.5430 .04320 .01475 .01670 .01670 .07240 .07240 .05220 .17390 .17390 .07240 .07240 .07260 .07300 .07730	100.	066	29766.	2000	04970	00900	00460	.07440	.03430	. 51320		3.05050
3,760 .553750 .0526015350 .01460 .07260 .03760 .55150 .16610 .16610 .55230 .05260 .04210 .16930 .16930 .16930 .04210 .04210 .16930 .16930 .0420 .52170 .16930 .16930 .0420 .0420 .52210 .16930 .16930 .0420 .0420 .0420 .16930 .17590 .0120 .00120 .07790 .03500 .17390 .17390 .0430 .05340 .05340 .00120 .00161 .00161 .00256 .00026 .00016 .00060 .00161 .0	\$	 F	25330	Oreco.	00000	T OIL	C96CO	.97440	.03400	. 51 520		3.03590
5.850 .53340 .03260 .01240 .01240 .002260 .002260 .04210 .16930 .01240 .16930 .01240 .01240 .01240 .01240 .16930 .16930 .16930 .16930 .012430 .02430 .04250 .16930 .16930 .01240 .04250 .02250 .04250 .02250 .03250	F#.	3.760	.53730	.05450	2000	2000	0.7460	07350	03760.	.51150		3.04280
7.950 .54360 .04430 .17730 .01870 .02530 .07240 .04430 .52210 .16690 .04430 .52210 .16690 .17390 .07240 .03500 .52060 .17390 .17390 .03500 .05540 .05540 .00120 .07730 .03500 .05730 .17390 .17390 .07730 .03540 .00161 .00161 .00161 .00162 .001026 .001026 .001026 .001026 .001026 .001026		5.630	.53340	0.09250	13330		0.0	07260	.04210			3.06030
9.840 .84390 .04320 .01870 .00140 .00120 .07730 .03500 .82000 .17390340 .843600121000140001610025607730	.8	7.960	. 54360	D4470	17750	0.010.	50017	9440	04430			3.09010
540 .54560 .0534001210 .00140	.937	9.040	.54390	.04320	20930	01810		9220	03300	. 52060	•	2.99510
CRADIENT .200660000301971 .2006100256 .UKKEUKKE		C45	.54360	.05340	01210	. 50140	02100	Serve.	*******	CACOO		00357
		TOTOTO	99000	-,00005	01971	.00161	00236	. Cr. r. 18 6	P1.5.55			

DATE 20 SEP 73	t	TABULAT	TABULATED BOURCE DATA - MSPC TUT 374	ATA - MSPC	146 274					;	
	•										
				SD (essent)	PHYS SEC 1880 (BANDA ACT ACT.	•			(*87088)	5. 5.	- 2
	•							Ľ	PARAMETRIC DATA	ATA	
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				į			•			ELEVIR S	8 6
3 = 13	2890.0000 88.FT.		. 836.7000 IN.				•	ATLACH =			19.000
	474.8000 IM.			Ė			-7	SPCORK *	7	1	
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	-	3	0 /968	- 7A	4.91 GRADI	CRADIENT INTERVAL "	/00.5- × 1	3.			
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i		5	ā	b	£	1	5	03500	, 50190	.26490	1.00470
ě			00710	06960	03000	Dieto.		06300	90760	.26510	1.91910
¥			00000	09040	0000	01410		08300	51190	C#592.	1.95960
			0.000	05950	08700	9110	ores.		51470	26560	1.03010
				03400	06800.	0 6 200	20110		600018	.26540	1.95150
4.7				0350	0000	00000	oento.		308.14	.26410	1.91570
4.45	4.300 4.300			02200	01000	05000	04040	Deepn.	01919	26290	1.06300
1.15					-,003ED	-,00230	06880	Deepn.		05082	1.96080
4.933					-,00590	-,00520	02000	oscoo.		26130	1.05220
1.9					Dagon"	09600	01000.	.00540	Capte.		3.93600
	•		-	-,000		01230	00040	.00340	01606		1.91025
		.96160		08430		01530	06170.	.00540	.4990	00100	1.94220
		01966.		-1000		Cacco	ororo.	.00940	.51240	10683	1960
	340	.57190	00,000	00210	orano.		-,00042	.00001	00047		
		00067	00015	-,00923	00123						
									(Re 1000)	C 10 M 75	ال الا د
			MARK S) (STYCO) 741	HEFT STATOLARS) CRB 1396 WINED	2					
			!						SARAMETRIC DATA	: DATA	
	BOODER	E DATA							1	a STATE	000
				3				*			000
•	TT-00 0000.0000		# 636.7000 IN.						000		000.03
	474.8000 IN.		* 8	. 0000 IN.				SPECIAL III		IN SHEET	
	936,7000 IN.		8.	.NI 0000							
	0900										
					× × × ×	GRADIEM INTERVAL =	VAL = -5.00/	200 2:00			
		25 N	6. XX7 c	1				i	•	8	Ş
			;	}	Ž	형	ð	3			1.09420
ğ	AT.	5	ð	5	00000	.m.530	00510.	01600	•		1.91400
7.05	-10.350	54700	06230	2011	00740	08310	5717C.	00800			
*		. 551.90	06130	2000	CKSCO	02600	.07050	02500		-	•
		. 55300	02200	DEBED.	5	01700.	00000	00800			
		09355	02130	06860	0000	06800	.06690.	.00340			
		. 55010	02030		COCOCO	00010	.06660				
		. 56360	02190	02:00	Cache	20310	.neann		-		
		02966	02010	30313	00700	C6907	.06750			-	
		. 55440	02090	04210	13000		(3985)	.00540	-	-	
		35290	06020*-	06160	30000		07690	.00550			
4.00		. 55090	n2160	06380		77.0	CHUZU	65500.			
7.938		24480	OP120'-	10260			06770		.49680		
4.939			02020	00100			1000	•		SCHOOLS OF	s .m.176
4.939		.554ZU	2000	2000		0017:	S.W.				
		87000	OICE.								

から、地域のこれは大きな神経を連続されたなどである。 1977年には、1987年には大きな神経をはないできない。 1977年には、198

2ATE 20 9EP 73	ž Z	TABUL	TABALATED SOURCE BATA - HSFC TVF 574	E DATA '- HE	JFC TAT 574					PACE	•
			MSFC	574 (0448)	MSFC 574 (OA48) CRB 1398 W/WZO	227			(Revise)	n (16 JUL 73	
		DECE DATA							PARAMETRIC DATA	DATA	
										n.tvir.	900
*	2000.0000 88.1	Ha.FT. Met	2	636.7000 IN.					000	. A 100	900
5	474.0000 TM.	4		.0000 IN.							20.000
- 04	994.7000 IN.	434.2		.0000 IM.							
SCALE =	oros.										
		RUN NO.	NO. 914/ 0	* 7	4.95 GRA	CRADIENT INTERVAL =	WAL = -5.00/	8.8			
į	į	8	3	ď	ŧ	ಕ	5	3	ರ	8	5
	412	, i		27.79	OTT10	.00590	04030	.03610	. 51410	.11130	4.61650
Ŗ	10.01	200	01150	14660	01690	CEOZO.	.06290	.03440	90706.	11330	4.40190
Ė			06830	00011	01290	01910.	06730	.03450	. 50030	1150	4.45440
	7	90630	03670	08090	55760	06010.	.06530	.03340	49340	01211	4.40.40
		04208	04130	.02910	00260	00000	.02540	02260	.49100	1111	4.59630
		Cato	04350	01020	02100	00800	.02450	CECEU.	.46690	. 11040	4.42410
1	0 L	90400	04250	04840	02900	00120	.02370	.03100	.46940	0.601	4.45610
		0000	03960	06900	00000	9356U	.08300	.03 2 00	.49050	11,020	4.4 WUEN
•			COME	-,12690	.01470	01060	06230	08280	4967	10760	4.51190
		CC-447	.03410	16690	06610.	0.2570	0220	.03740	.46760	10040	2000
		0110	03310	20020	06130	01840	.02140	0980	00297	1070	4.55110
		•	04850	07600	06100	cosco.	.02420	.03160.	.46660	.1000	4.45000
	PRACTION	# dob	Sono.	01909	A0200.	0201	-,00031	•1000	000%	mms	edato.
		Ş	RUN NO. 513/ 0	* 7.8	6.22	LOIDAT INTER	GRADIENT INTERVAL * -5.00/	3.00			
j					į	į	į	5	đ	e	2
Š		5	ē	Շ	Ē	4	5		4.6	16790	3.21250
ŧ	-10.970	.59940	.01430	.19660	01530	03810	0.000	0		0250	5.19270
į	9.610	34870	.03400	.16220	01410	27.00	oreen.			16420	3.15050
į	-6.540	. 53960	03610	.11610	01010	04450	0.000	OFFICE OF THE PERSON OF THE PE		16310	3,11990
į	~4.480	. 52960	.06230	0220	00460	OZOTO:	DE KONT	2000	200	0.14930	3.05960
į	-E.440	32720	02020	.03330		06600	02:00	0000	CASO.	007	3.07130
ţ	-,390	. 52480	06220	-, noenu	.00200	CACUO.	.07140	Neces.			3.04430
	1.730	52630	02030	-,04940	.00500	00350	(322.0	02000	Deepe.	2001	1.00
•	2.3	.52550	.02100	09350	0660 0.	0.001.	0	03460	OFFICE.		
•	5.640	. 52690	08020	13690	.01390	01150	07040	0.0000	::CCD6.	03691	
	7.930	53170	.01660	16040	01770.	01910	.07221	07660.	. 51020	.1667	3.00000
1		53980	.01260	21745	.01780	01600	.07150	.04460	.51360	. 1661.	3.19240
} {		32840	06120	-,00630	ימכנים.	cecou.	08240	.03460	ere.	16550	3.06300
ļ	20000		A1000	*1020	27 100	00216	\$11%30.	\$1000	(22337	SCICKIO.	255000
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TABLEATED SOURCE DATA - MSFC TMF 574
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DATE 20 9EP

HSFC 574 (OA48) ORB 1398 WINZO

(Re7090) (16 JUL 73

PARAMETRIC DATA

REPERBICE DATA

E.12510 E.076510 E.076510 E.076110 E.076510 E.076510 E.016550 E.016550 E.016550 E.016550 E.016550 E.016550 ELEVTA BOPLAP TRINGS 10.000 .000 .000 0.00 mm. 10 mm. ALCHA : .06360 .06470 .06470 .06860 .05680 .06800 .06800 .06800 .06420 .06420 .06420 .06420 GRADIEM INTERVAL = -5.00/ 5.70 13470 13470 13470 13570 -.01110 -.00970 -.00730 -.00730 -.00730 -.00780 .01180 .01387 .01387 .01181 .17180 .18710 .18710 .08310 .02400 .03490 .03490 .19010 .170900 .170900 .170900 .0000 IN. ž RUN NO. 512/ 0 04.30 6.636.0 6.636.0 6.636.0 6.6310 474.0000 84.FT. 474.0000 1M. 834.7000 1M. 110.810 1-0.81

20 201030 201030 201030 201030 219700 219700 219700 210300 210300 210300 210300 210300 4.2250 4.1250 4. CAB .03260 .03260 .03260 .03360 .03360 .03690 .026930 .026930 .034060 .03400 .03400 .03400 .03400 .03600 .0 CEL .01360 .01360 .01360 .01360 .01360 .00340 .00340 .00360 .00360 .00360 .00360 .00360 .00360 .00360 .00360 .00360 .00360 .00364 .00360 .0036 .16790 .12900 .09800 .09800 .02800 -.00200 -.104110 -.14590 -.16520 0.00000...
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0.00000... 4.9960 4.4780 4.4380 4.4380 4.4380 4.4380 4.4380 4.4380 4.4380 4.4380 4.4380 4.4380 4.4380 10.700 14.700 14.700 14.700 14.700 15.7000 15.700 15.700 15.700 15.700 15.700 15.700 15.700 15.700 15.7000 15.7

TABULATED BOUNCE DATA - NOPE TAFF 574

DATE 20 9CP 73

HEFC 574 (0448) ORB 1398 WHED

(18 JUL 73)

PARAMETRIC DATA

.000. 000.03 ELEVTR BOPLAP 10.000 .000 000.000 ALMA ... ATLINON ... SPORK ...

.0000 1W. COO

REPERENCE DATA

4.07 GRASIENT INTERVAL . -5.00/ 5.00 -.00200
-.00200
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-.00200 # **\$** RUN ND. _ 5507 D

2.350 A PRODUCT - 1.350 A PROD 084.3

.14190 .14100 .14100 .14100 .14100 .14100 .14100 .14100 .14100 .14000 .19940 2.29930 2.29930 2.29930 2.29930 2.29930 2.29930 2.29930 2.29930 2.29930 2.29930 2.29930 2.29930 .01880 .01880 .01840 .01880 .01880 .01880 .01880

1.90490 1.90490 1.90490 1.90490 1.90590 1.90590 1.90490 1.64390 1.64390 1.64390

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BOURCE DATA - MSFC TMT 574 MSFC 574 (OA48) ORB 139E W/MED

PAGE 171

(RETUSE) (18 JUL 73)

	000.03	
CATA	ELEVTR = ODFLAF = TRINCR =	
PARANETRIC DATA	000.	
	BETA = ATLRON = SPDBRK =	3. :0
	2 2 2	-9.00/
	•	RUN NO. 506/ 9 RWL = 5.De GRADIENT INTERVAL = -5.00/ 5.00
		GRADIENT
		5.06
	. 10000 IN. . 10000 IN.	RNC'L *
	000. 000. 000.	0 /906
	21 H H	ğ
\$	A T W	2
ATAC DATA	= 2000,0200 30,FT. XMRP = 636,7000 IN. = 474,0000 IN. YMRP = ,0000 IN. = 996,7000 IN. ZMRP = ,0000 IN. E 936,7000 IN. ZMRP = ,0000 IN.	
į	2650,5220 36.7 474,6220 14. 536,7220 14.	

2.0000 2.90000 3.99400 4.31410 4.36970 3.61500 3.61500 5.76370 2.31540 4.36650 4.36650
CD
CAB .02900 .02900 .02900 .03110 .03110 .03240 .03240 .03130 .04370 .04370
CA .03900 .0770 .03240 .04500 .05310 .02310 .02540 .02540 .02540
CBL
CYN
04420 .04420 .04410 .046310 .04630 .03630 .03930 .03930 .03470 .03720
2000- 20000- 213640- 213640- 20000- 2
2.470 2.480 3.300 2.300 2.300 14.140 14.140 16.310 16.310 16.310 16.310 16.310 16.310 16.310 16.310

	1.00420 1.00420 1.00000 1.00000 2.00000 2.00000 2.00000 2.00000 2.00000 2.00000 3.00000
	.07170 .07130 .07130 .10430 .12920 .16780 .27530 .34510 .41340 .46960
20.6	CAB .03000 .03020 .03100 .03100 .03890 .03890 .04460 .05630 .05630 .05630 .05630 .05630 .05630 .05630 .05630 .05630
CRADIENT INTERVAL = -5.00/	CA .07100 .07100 .07100 .07190 .07190 .07270 .07600 .07770 .06070 .06070 .06280 .07390 .07390 .07390 .07390 .07390
NEW INTERV	08c. .00360. .00360. .00320. .00320. .00130. .00130. .00400. .00400.
6.36 CRAC	CTN
# 1/AB	CY
0, 305/ 0	
S MA	
	4.500 1.300 3.730 5.340 6.300 12.480 14.670 16.900 19.100 10.290

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					- Y14	STATE OF THE STATE					PACE	172
PATE 26 20 73	۶ د	<u> </u>					Ş			(Re7091)	1) (16 JUL	. 22 .
				ž	574 (OA48)	MSFC 574 (OA44) ORB 1398 WINES	g					
										PARAMETRIC DATA	DATA	
	NO. CHES								# VL	600	ELEVTR =	906
	A6 0000-0000	.rr. xee	*	636.7	636.7000 IN.				ATLRON =	999	BEFLAP =	000
	474,8000 114	. YPER	#	S.	.000 IN.				SPECIAL II	066.646	TRINER =	20.000
	996.7000 1N.	23462	H	ę.	.0000 IN.							
	}	i	\$	3	# T/18	6.75 GRA	CRADIENT INTERVAL =	/AL = -5.00/	00.8 /0			
		Ş	<u>.</u>				į	:	CAB	ರ	e	3
	454	5	٥	ð	Շ	Ē	, S	5	02880	.01230	16920	.07290
1.190		.04130	٦.	Dated.	C8600	09200	2000	16860	01750.	.13570		76560
2.28		.14070	۳.	-01910.	-,00640	OCCUPATION OF THE PARTY OF THE		16630	.05650	.26780		1.44500
1.196		OSALZ.	7	08800°-	20170	0000		16340	06950	.39025		1.66610
2.190		.41060	-	06530	mets	00000		15960	.05780	49970	02562.	2.12410
1.190		38860	•	03530	06900-	Deam.	6	15650	.05920	.6166D	.27550	2.246.0
1.18	-	00669		04600	01190	oreno.		15290	06090	.74260	.32719	2.27040
1.180		79690	Ī	06210	01020	00000		15140	06530	.84950	-	2,19690
1.190		.96060		07120	01120	01300	2000	14660	04170	.94900	·	2.09910
		1.04060		08010	01400	27.5		14740	.07150	1.03670	.52520	1.97750
		1.15460	•	CN280	01640	.00330	0000		.07250	1.10550	. 59400	1.66090
	-	1,24660	-	57960	-,02060	.9550	0.000		08880	.62100	.27570	2.25230
		02120	Ī	-,04665	01140	00000	01200	.1566.	- 10000	92650	77800.	.31765
	. 5	.06230	-	01182	00068	\$0000.	00016					
		i	\$	0 /4:5	# 1/18	7.08	CRADIENT INTERVAL = -5.00/	YAL = -5.0	00' 2'00			
		}							•	C	8	Ş
į		3		3	Շ	Š	현	5				•
		•		06900	C9CCC*-	.00160	00100	.13890	03250	07540		
			•	-,00520	-,00230		02000	130.6	04.80	17120		1.13920
				01560	20230	.00190	Degue.	15860	Cocko	.24920		1.55690
				-,005300	00340	.00160	CACCO.	13561.	Cooper	33400	07871.	1.66670
				09630	02700-	.03140	00000	16960	COOCU		09002.	2.03240
				03560	00520	.00100	00000	15450	06150		01882. 0	2.11670
			-	-,03em	DD660		0000	151151	00250	.57720	0 .27140	2.12620
		.ee730		04160	00619		CEOCO.	04440	04650	02999		2.06280
				-,04530	-,00 9£ 0		Demo-	GC TT	00760	.74695	05775. 0	
				04950	00600*-		01000	06231	08880	.61760	n .43350	
		.91930		05430	01050		OKONO.	0686	09050	.40860	07661. 0	N
		.43780		03260	0049:1		05000.	05021.	00019		6 .50244	.2764D
	\$		-	DD461	47 COG -	-,000,000						

PACE 173

MSFC 574(0A48) ORB 1398 WANTD

(Re7091) (16 JU. 75)

PARAMETRIC DATA

	BETA : .000 ELEVTR : ALLEGN : .000 BOFLAF = SFERK : 999.990 TRIMER =
	7986 = 634,7000 IN. 7986 = ,0000 IN. 7986 = ,0000 IN.
	H H M
	N F N
Mary Confessor	2090.0000 90.FT. 474.0000 1K. 996.7000 IK.

		CN NO.	5. Seav o	* *	4.12 CRA	DIEM INTERN	RADIENT INTERVAL = -5.050	3			
		i	;	8	į	ŧ	3	8	ď	e	S
ğ	Ş	\$	5	5	:;	}	1				
			21610		00000	09000	.11010	80.0	02750	13111	1
N. 30		Diam'-				9	6000	C.4.C	01050	00901	19620
	37.5	.02280	-,01200	00.00	00100		ne ne ne				
					COCCUL	07000	19400	.01630	07670	10690	2
N.	3.910	72047	2710-				Coppos	21.840	43540	C9611.	1.19190
0	5.57	14990	01260	5,000	.000	OTOMO.	Caren.			4	CA COS
			00000	500	02000	02000	500 500 500 500 500 500 500 500 500 50	01910	00061	12430	
S		200	200		9		COPPO	03810.	.26270	.14045	1.67135
2.350	9.720	E 25	01660	00140	neron.	1			504.00	18347	2.01310
		26535	067.10	2,00	09000	5	01260	20010	.361.36		
2.3				-		COLLO	08690	01860	.39150	.16660	2.07370
2.50	13.960	.42340	-,010	OCCUPATION.		2000	Cayen	DARC	45730	02222	2,557.60
2.990	13.960	20060	- CEC100	0260	CCCCC.					2000	2000
			06820	02700	CSCUO.	01000	.06510	2010	.0636		
2.3	20.01			2000	0,000		.08330	Creta.	. 58635	.30291	1.94200
6.950	20.010	0200	02730	-			00700	0.860	26660	.14140	1.66510
2.99%	9.730	.28660	0.510	55155	Cross.	11,4110	2000			- 000	***
	CRADIENT	96720.	01000	00026	00000	-, 00005	00153	.07.80	*10501*		

	NO.	RUN ND.	919/ 0	RN/L =	S.DS GRA	RADIENT INTERV	INTERVAL = -5.00/	2.00		
ALPHA 480 1.410 5.440 5.440 7.480 11.580 11.580 11.770 1			02.730 02.730 02.410 02.130 01.730 01.730 01.730 01.730 01.730 01.730 01.730	CY 	CYN .00160 .00110 .00101 .0000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	CBL .000390 .000390 .000390 .000030 .0000000 .00000000	CA	CAB	 .00410 .00410 .00400 .00400 .00440 .12050 .12050 .17230 .17230 .27630 .27630	4650 01900 .44690 1.01030 1.44660 1.77960 1.97120 2.09270 2.09270 1.97270 1.78420

	5	TABLE	TABLILATED SOURCE DATA - MSFC TUT 574	E DATA - MB	PC TAT 574					PACE
			ž.	574 (OA48)	HSPC 574 (OA48) ORB 1398 WINED	£.			(R67592)	Anr 91) (1
٠.		****							PARAMETRIC DATA	DATA
		<u>:</u>						i	Š	50 FVTB #
	-F-96 0000 0000	T. Xee	E 636.7	636.7DC0 1W.				BETA "	8	BOFLAF =
5	474.9000 IN. 936.7000 IN.	27.2	" " "	.0000 1N.				SPOSKK =	999.990	TRINCR =
SCALE :	CPOO.									
		RLW ND.	ND. 907/ 0	# 7#	4.97 CRA	CRADIENT INTERVAL = -5.00/	M. = -5.00	00'5 /0		
			;	į	Ş	Ē	5	CAB	ರ	8
Į.		5	ð	1 2000	0.00	02000	02620	.04760	1.00010	.41020
2	 . ,	1.06070	06000	01620-	CLES O	0.000	.02230	.05380	1.06390	.46300
ř.		1,10010			00300	-,00619	.02640	0 603 0*	1.10910	.54600
36.		1.23690	OUT.	-,00540	06200	01360	.03480	.07250	1,04200	. 57040
		1.1075			00100	01000	.04490	.06310	.96360	56500
		1.15000		002.0	09000	05220	.04450	.08930	.98560	CUSTS
		1.17730	C#97.	66.0	CSCOO"-	00170	.03640	cerso.	1,05190	. 73260
8		1.28130	14000		06000	-,00200	00360.	.06345	1,10190	.61610
200		1.57050	15051	200	5	06500	.03240	00000	1.13850	.90630
. 983		1.45490	1220	20000	09000	00100	03250	06960"	1.16200	.99510
8.		1.53000	12020	10000	Compa	200	02490	07760.	1.19640	1.08640
506.		1.61740	.13110	02490	- (KKIGE)	5.00	04640	09490	.96435	.A4720
266	34.000	1.17710	.16640	01550	-17.7.00	-	91000	AE 4777	0.2700.	.03187
	8	Creato.	60e00°	11000	00022	eccon.	e reger			
		Š.	MO. 5257 0	RAL "	4.09	GRADIENT INTERVAL = -5.00/	VAL = -5.0	00'8 /0		
							;	•	C	8
1		ð	ā	Շ	ž	Ę	ð	3	,	
		64420	-,00000	05700	0,0000	cacar.	.06330	07870	. 39600	
	, i	74570	03000	00740	01000	20010	.06190	01670	C. C. C.	2
		CHARLE	-,03900	-, 50,030	-,00030	-,00020	CZ090*	orero.	1551	
		92150	03960	25055	00000	000040	.07850	01930	oras.	19694
		1.11320	-,05010	01060	-,00059	-,00045	.27580	02610	ODE C	
		0.000	-,05550	01635	02100	00140	.07230	01610.	.973(F.	
		C850k. +	-,0619D	01685	COCCC.	00120	.07050	01900	CCOSD*1	20000
		02.007	0686D	01530	Cecco.	U6G0G*-	.06870	02610	1.07270	Decire.
2.3		40700	C6170	01640	09000	00110	.06670	.01920	1.11400	0150001
8.80 1		. 467.00	027730	91730	06030	00139	.06540	.01940	1.14730	I SEE SEE
2.980			09050	01139	00000	-,00039	.07349	02610.	.91820	
2.930	030.18 0440.04	.04477	7.500	-,00057	souca.	70000	-,00089	.0000	.02730	oraco.

2.43760 2.24290 2.72330 1.62660 1.64730 1.43510 1.43510 1.3510 1.16330 1.16330 1.16330 1.16330

1,09960 1,01090 1,71630 1,71630 1,34620 1,26630 1,18670 1,116970 1,14420 1,43940

##.FT. x048 = 636.7000 IN. IN. Z047 = .0000 IN. IN. Z047 = .00000 IN. IN. Z040	0ATE E8 8C P 73	ę Ł		TABULAS	ED BOURC	E DATA 574 (OA	- 188FC	TABULATED BOURCE DATA - MSFC TWT 574 MSFC 574 (OA48) CRB 1398 W/M20	Ç.			(R67062)	2	PAGE 175
Sepachoon Selft, Note; Side Side Tool IN. Sepach Sep		REFERE	NCE DATA									PARAMETRI	C DATA	
### ON CLM CY CYN CBL CA CAB CL CAB C		2680.0000 8 474.6000 1 996.7000 1	ţ.	200 X	F. 658	000 IN. 000 IN. 000 IN.					DETA ATLRON SPODEK	000.		000°02
ED-300 95370 00360 00160 00470 00470 00470 00470 09320 ED-300 95370 00360 00160 00460 00470 00470 09320 ED-300 95370 00560 00110 06600 00460 35740 ED-300 71830 005600 00140 06900 00460 53740 ED-300 71830 706600 70140 06900 00500 55740 ED-300 71830 70670 70150 06900 00500 75560 ED-300 70670 70070 70070 70070 75560 75560 ED-300 70670 70070 70070 70070 70070 75560 ED-300 70170 70170 70170 70170 70070 70070 ED-300 70170 70170 70170 70170 70070 70070 ED-300	:	ì	***	RUN NO.					DIENT INTER	1VAL = -5.1				
20.300	3	46.4	ð		ð	Շ		ž	ŧ	5	3			5
22.250 .000400 <th< th=""><th></th><th>8</th><th></th><th></th><th>05160</th><th>.00</th><th>8</th><th>00030</th><th>00120</th><th>OBJOG.</th><th>. DO.</th><th></th><th>-</th><th>1.92330</th></th<>		8			05160	.00	8	00030	00120	OBJOG.	. DO.		-	1.92330
24.200 .71630 00150 00140 .0090			8		.02640	.00	120	06000*-	00110	.06860	970		-	1,84560
26.340 -,00450 <th< th=""><th></th><th>24.20</th><th>716</th><th>•</th><th>00620</th><th>00</th><th>Š</th><th>00100</th><th>00140</th><th>00690*</th><th>0600.</th><th></th><th></th><th>1.74785</th></th<>		24.20	716	•	00620	00	Š	00100	00140	00690*	0600.			1.74785
28.360 00460 00750 00450 <th< th=""><th></th><th>98.3</th><th>9</th><th></th><th>.03180</th><th>- DO</th><th>150</th><th>-,00060</th><th>00130</th><th>00690*</th><th>0020</th><th></th><th></th><th>1.64630</th></th<>		98.3	9		.03180	- DO	150	-,00060	00130	00690*	0020			1.64630
30.400 .99360003700034000140 .06790 .00310 .82220 .82220 .82220 .9236000440 .00310 .92220 .92220 .92360004400044000170 .06690 .00300 .94350 .9		28.360		•	.03460	DO	90	-,00050	-, 50150	.06850	.0049			1.55455
\$2,525 1,09340046400114000170 .06690 .013000 .06690 .013000 .06690 .013000 .06690 .013000 .06690 .013000 .06690 .013000 .06690 .013000 .06690 .013000 .06690 .013000 .06690 .013000 .013000 .01300 .01300 .01300 .01310 .01300 .01300 .01310 .01310 .01300 .01310 .01310 .01300 .01310 .01310 .01300 .01300 .01310 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .01300 .0130000 .013000 .0130000 .013000 .013000 .013000 .013000 .013000 .013000 .013000 .013000 .0130000 .		30.460	.96	•	07950	-,00	50	-,00030	00149	06790	1500.			36104.
34.500 1.191300221001120 .0000000160 .06550 .00510 .94350 .94350 .94450 .94450055600555005510 .99440 .99440056500555005510 .994400550005500055000550005500055000541005700057100143000700001600541005500 1.04260 1.04260	1.93	32,520	1.083	•	04640	110	5	00040	D. 100	0699G.	0600			00000
36.640 1.292000365001250 .0000000200 .06560 .00310 .99740 .36,700 1.36770067100024000240 .06410 .00500 1.04280 1.04280 40.620 1.4656001250015600007000160 .06340 .00500 1.06460 1 30,460 .9965004040006900010000160 .06720 .00500 .02460 .02460 .00500 .00500 .00500 .02460	*	34.580	1017	•	03210	011	20	00000	50180	.06350	10021			1.63660
36,700 1,36770 -,06710 -,01430 -,00040 -,00190 ,06410 ,00500 1,04800 1,04400 40,620 1,46360 -,07250 -,01560 -,00070 -,00160 ,06340 ,00500 1,06460 1 30,460 ,99650 -,04040 -,01690 -,01100 -,01100 ,06720 ,00500 ,00500 ,02460		3	•	Ī	.05850	D12	S.	00000	00200	.0656ე	.0051			2.2107
40,620 1,46360 -,07250 -,01560 -,00070 -,00160 ,06340 ,00500 1,06460 1			• •	Ī	06710	014	Š	00040	-,00190	.06419	.005	-		1.15620
\$6,460 .99690040400010000100 .06720 .00500 .82460 .005040 .00500 .00501 .02948			•		.97250	013	8	07000	-, 50160	.06340	.0050	**	-	1.06950
00001 00001 - 00000 - 00001 - 00001 - 00001				•	CACAC	00	061	-,99199	00180	.06720	0500		_	1.46470
		36.06			9600	200	¥	20000	-,00004	00030	occo.			04267

TO REPORT OF THE PROPERTY OF T

	£	TABUTA	TABILATED SOURCE DATA - MSFC THT 574	CATA - MSF	PC TMT 574					PAGE	5. I.
	2		3	574 (OA48) C	MSFC 574 (OA48) ORB 1398 W/HZ3	£3			(A877)93)	(22 JUN 75	2
								-	PARAMETRIC DATA	DATA	
	REFORES	DKE DATA								;	
t	71.98 0000.000	ABOX .L	= 636.7090 IN.	90 IN.					66.	CLEVIR =	900
		4	20.	.0000 IN.				Althon a SPDSRK a	066.666		23.020
SCALE :											
		RUN NO.	0. 5337 5	ENV!	5.01 GRA	CRASIENT INTERVAL = -5.00/	YAL = -5.00	00'5 /			
				i	į	ŧ	5	8	5	ರ	8
ğ	AL SHA	đ	# <u>1</u>	1	ריים מיים מניי		07090	coasc.	-1.14130	07000	.06130
	- 300	Georg.	06950	2200	2000	00200	00650.	.n297n	.38750	02530	09660.
	1.40	12000	THUM.	0.200	00100	02200	01550.	.03060	2,07290	.12635	.netmo
		030611	26290	C9900 -	.00210	.00230	.04280	.03020	3.552	08882.	
. 357	6	62143.	Dear of	0.0000	COSCO.	00100	.03200	.03130	4.33460	.34359	026401
Ř		4289	08180	01265	09100	.00240	.02230	COURT.	4.47900	.46720	95401
Ř		(STOCK)	0880	01155	C9100	.00050	.02360	.03360	3,93450	0.000	
È		5882	08130		01200.	00140	.02450	.03570	5.47930	. 750	
Ř		0.950	02730	-, 52155	.00360	00160	.02590	.0387	3,06160	00619.	
Ė		00710	.01640	52319	07800.	-, D012th	orsen.	08190	2.79920	0,000	24.67
Ř		00250	006 10	02150	.93320	0027th	.01980	01670	06886.3	1.07640	TINAN -
Ř	CAADIDA	57670	65000	DZ:00:-	sococ.	.00000	00188	02000	. 79167.	CAGA!	100000
		RUN NO.	D. 534/ D	3. 1.	6.33 GR	GRADIENT INTERVAL =	VAL = -5.00/	0/ 5.00			
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*O#	\$ 5	3	ð	Ե	CTR	3	Crear	03040	-1.32720	09310	02010"
	910	08360	06950	-, 20082J	00000	CHECK	01270.	.03130	.42210	.03120	.07400
		.03850	06250	01900	Carrier.	CRECAD	0.000	0.7050.	1.61050	.:4960	.08270
		.15460	04490	0.6.0	08800	00210	escre.	.03150	2.66250	.26100	00960*
100 .		D/892	2000	(ME 00)	L. KOO	.93130	CMONO.	.05330	3.01470	.37460	.12420
		2000	03630	06640	03360	96000	CT 170.	.03460	3,04780	.49570	.16260
		20016.		- 01667	00400	00190	.07150	08780.	2.93230	.60750	G2402.
		2000	Contract -	12010	.05445	00450	.9270	.04270	2,75690	. 73710	.26739
		Corner C	- 01740	08610	.90350	04.260	.07499	.04640	2,54330	.85860	.33750
			0.520	01980	07500.	-,00230	01770.	.05460	2,32130	.95651	.41270
	19,050	1.03660	06100	0.01630	02100		.07740	.06020	2.14919	1.727.1	47690
	100	1.16487	00332	-,00100	200012	\$0000	2817/79.	10000	.74231	.05752	16206
			1 1 1								

TABULATED SOURCE DATA - MSFC THT 574	MSFC 574 (OA48) ORB 1398 W/H23
CaTE 20 8EF 73	

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(ART:)93) (22 32		ELEVTR = BOFLAP = TRIMER =	
166	C DATA		
(¥8¥)	PARAMETRIC DATA	000° 000° 066°666	
W/H23		BETA = AILRON = SPOBRY. =	BERLING SSS. D. RNVL = 6.79 GRACLENT INTERVAL : -5.00/ 5.00
3KB 139B			£.0
MSFC 574 (OA48) ORB 1398 W/M23		ATA DORF = 636,7000 IN. YHEP = .0000 IN. ZHEP = 0.000 IN.	535/ 0 RWL =
		H H H AND H AND H H AND H H AND H AN	\$ 2 8
		Se. 77.	SCALE = ,0040

.000. .000. .000.

CD .16590 .1720 .23160 .23160 .32100 .32100 .32100 .32100 .32100 .32100 .311220 .11220	.12470 .14050 .16840 .22190 .26160 .30690
CL .00380 .12870 .25660 .37940 .60770 .84780 .95380 1.10500 .05876 .05750	.19610 .26040 .32600 .39020 .45750 .52450 .59370
1,95290 1,39270 1,39270 2,10470 2,21760 2,21770 2,21710 2,11400 1,99310 1,67360 3,1625 1,00210 1,18250	1.5.270 1.855.7 2.01680 2.01600 2.01470 1.93410
	.01690 .01690 .01930 .01900 .01900 .01900
(A .16950 .1,689 .15630 .15640 .1570 .1570 .14650 .14650 .14990 .11190 .11190 .11190 .11190	.09750 .09240 .09220 .08980 .08720 .08610 .08470
CBL (1) CBL (1) CBL (1) CBL (1) CBC (1	-, 000000 -, 000000 -, 000000 -, 000000 -, 000000 -, 000000
CYN	090001 090000 000000 090000 090000 090000 090000 090000
CY 00250 00350	-, 0.030 -, 0.000 -, 0.000 -, 0.000 -, 0.000 -, 0.000 -, 0.000 -, 0.000
	C7510, - 07010, - 07010, - 07010, - 07010, - 07010, -
7. 2.00 NO.	.14650 .21090 .285340 .35240 .5000 .57970 .66297
ALPMA400 1.600 5.900 6.110	5.540 7.630 9.720 11.810 13.660 15.970 18.060 18.060 CF.0100
ACT 11 19 6 11 11 11 11 11 11 11 11 11 11 11 11 1	0.66 N 0.66 N 0.66 N 0.66 N

		č	•		
			BETA = A11.50N E SPECIEK =	00'5 /	CAB .00560 .00590
				٦ -5.00	CA .085%0 .08450 .08170
	•			CRADIENT INTERVAL = -5,00/ 5,00	. 20060
TAT 574	MBPC 574 (CA48) ORB 1598 W/HES			DE GRADII	CTN .90170 .0170 .90130
TABULATED BOURCE DATA - MSFC TM 574	(OA48) ORB		<u> </u>	FUN NO. 943/ 0 RIVL = 9.02	CY -, (12)720 -, (13)660
SOURCE DA	MBPC 574		.N1 0002. .N2 0000. .N1 0000.	2 4 2 2	0.4 0301v 02730
TABU.ATED		_	H H H	EN NO.	
		REPERENCE DATA			0.0000 0.0000 0.0000
5		40.0	2000,0000 30.FT. 474.0200 IN. 936.TUTL IN.		APA 018.2 048.1
DATE TO 5.7 13			אכירך : היים : היים :		10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

999. 84.

(21 MM 12)

PARAMETRIC DATA

PAGE 170

		3	MO. 94% 0	# 1.74E	3 DE GRAD	DIENT INTERV	RADIENT INTERVAL = -5.00/	9,00			
i	:	i	1	8	ž	ŧ		3	5	ರ	8
Ç	Ş	5	Ę	;	1			00800	48510	04070	00490
4.13	510	25130	-,03010	02.CE	200	2				40.0	26430
	1.330	G9900'-	02730	09900	50140	0000		ores.	15/50		
		2	COPPOR		90139	02020		.90590	.43100	03630	.09400
4. A.	3.450				Carre	07020		00000	00260	.07710	. Deet
4.939	0.4.0		- 101 M	2000				01900	1.37640	.12000	06280
4.959	7. 5	2	01690		3	1		6	1.05	17890	10400
4.93	9.540	19340	01340	20730	06000	00000		0.00			
	11,580	04962	01100	00790	01100	00000		03900	1.94100	2002	
	13.610	.32130	-,01000	00630	00000	00100	.07160	00000	2.03340	. 20540	14320
650-7	19.000	39090	01960	00730	anaxa.	00070		.00630	2.06330	. 33740	2001
	17.720	01797	07600	CUBOS'-	00010	00120		.00640	2.02610	420ec	2202.
\$6.7	29.670	. 53620		041740	-,00010	-,00133		.00640	1.95510	.4832C	01.42
	CRACION	90130	.00155	60000*-	00010	00010		90000	. 23385	796.0	(1012)0

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PAGE 1FD	(Ketosa) (16 Jul. 75)	PARAMETRIC DATA	SETA = .000 ELEVTR = .000 ALLACH = .000 BOFLAF = .000 SFUGHK = 999.990 TRINCR = E3.000	5.00 CAS
TABLEATED BLARCE DATA - NBFC THF 574	MSFC 574 (0A48) GFB 1396 M/H23	CONTRACT DATA	M. FT. MARK R .0000 IN. M. YHRY R .0000 IN. M. ZHRY R .0000 IN.	#### CH CLH CTH CTH CBL CA GRADIENT INTERVAL = -3.004
		1	8 0009,0888 = 7388 8 0009,0888 = 738,000 1 0007,099 = 738,7008 0 000,000 = 3,600	

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111	0

TABLEATED SOUNCE DATA - MSPC THE STA DATE 20 9CP 73

REPERENCE DATA

1880.000 SB.FT.

MSFC 574 (OA48) ORB 1598 WWZ3

(ST MUL 22) (28078A)

ELEVTR = BOPLAP = TRINCR = PARAMETRYS DATA 10.000 .000 ALPHA ... ATURUM ... SPESSES ...

.000 1N. .000 1N. 474.8000 1K. 996.7000 1W. . AME .

MAL = 5.10 CRADIDIT INTERVAL = -5.00/ 5.00 0 //\$\$ **GM M**

10970 10970 10980 10980 10990 10990 10990 10990 10910 10910	
48800 48840 48840 48840 48840 47790 47790 48880 48880 48880 48880	
4.5400 4.5400 4.5400 4.5400 4.5400 4.5500 4.5500 4.5500 4.5700 4.5700 4.5700 4.5700	
CAS	3.00
64 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	/AL = -5,00/
CBL	MADIEST INTERVAL
- 01910 - 01700 - 01700 - 0120 - 0080 - 00100 - 0080 - 01400 - 01400 - 02240	6.45 CAA
	178
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	D. 536/ 0
2013; 2100; 21013; 2013; 2023;	Q. MI
13.490 -13.490 -4.480 -1.440 -1.340 -	

.16250 .16260 .16240 .16160 .16170 .16170 .16170 .16440 .16460 3,23070 5,22340 5,12370 5,13590 5,13590 5,13590 5,13590 5,13540 5,13540 .03640 .03840 .03840 .03390 .03390 .03340 .03340 .03340 .033900 .034160 CA .06610 .06670 .06770 .06600 .06600 .06600 .06600 .06600 .06900 -.01470 -.01500 -.00500 -.00120 -.00120 -.00120 -.01500 -.01600 -.01600 64.00 -- 00000 -- 00000 -- 00000 -- 01010 4.380 4.380 4.380 4.390 4.390 5.390 6.300 6.300 **\$ \$ \$ \$ \$ \$ \$ \$** \$ \$ \$ \$ \$ \$

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(A87083) (22 JUN 73)	PARAMETRIC DATA	= 10.000 ELEVTR = .000. = .000 EDFLAF = .000 = 999.990 TRIMER = 23.000
	1877 374 (OA48) ORS 1379 W. W.	O IM. ALPHA E ALLACN E DI IM. SPORRE E DI IM.
		74 366 × 636,7000 19. 376 × 636,7000 19. 276 × 636,7000 19.
£	,	ACCOUNT BALT. 7 24.5000 18. 7 74.5000 18. 7 50.7000 18. 2

1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20			0. 5394 0 0.04800 04830 04830 04830 04830 04830 04830 04830 04830 04830 04830	77 .1730 .1730 .13810 .0880 .0880 .0880 .0840 .1870 .1870 .1870 .1870 .1870 .1870	CTM - 01200 - 01200 - 01200 - 000570 - 000570 - 000570 - 01300	COL CA COL CA COL CA COL CA COLOGO 13410 COLOGO 13410 COCOSO 13500 COCOSO 15600 COCOSO 156000 COCOSO 15600 COCOSO 15600 CO	CA .: 5410 .: 15410 .: 15410 .: 15410 .: 15400 .: 15400 .: 15500 .: 15500 .: 15500 .: 15500 .: 15770 .	9.00 CAB .06530 .06430 .06430 .06120 .06120 .06120 .06130 .06110 .06110 .06110 .06110	E.23400 E.23400 E.23400 E.23400 E.2340 E.23400 E.23400 E.234000 E.24000 E.16960 E.16960	61485 61485 61485 61886 61886 61810 61810 60900 60900 60080 60080	20 21 21 22 22 22 22 22 22 22 22 22 22 22
	4.54 6.4.4 6	9		C4 11690 10690 10690 10690 10690 10690 10690 10990 11900 119	CTN000370000300000200000200000300000300000300000300000300		CA .09480 .09480 .09480 .09480 .09480 .09440 .09440	CA6 .01940 .01870 .01860 .01860 .01910 .01910 .01930	1.90760 1.90760 1.80360 1.8530 1.85460 1.804760 1.84190 1.85840 1.85840	27260 27260 26640 26640 266130 29960 29960 29960 266130 26620 26620 26620	.14300 .14110 .14110 .14090 .14090 .14090 .14100 .14140

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DATE 20 ECT 73

TABLEATED BOUNCE DATA - MAPE THE STA

HERE STATOLARS) CHR. 1398 LANES

PAGE 103

(18 JU 11)

PARAMETRIC DATA

986	23.000		1.90040 1.91960 1.91960 1.91960 1.91960 1.91960 1.91960 1.91960
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	HINGS :		25960 25960 25960 25970 25730 25730 25730 25530 25530 25530 25530
1	000. 000. 000.		49570 49580 49580 49680 49680 49730 49500 49500 49500
	ALPHA = ATLRON = SPDBTK =	3, 5.00	.00640 .00620 .00620 .00640 .00640 .00630 .00640 .00640 .00640 .00640
		GRADIENT INTERVAL = -5.00/	CA .07360 .07340 .07250 .07050 .06930 .06930 .07010 .07010
		IOT INTON	.01420 .01420 .01020 .00260 .00240 00220 00320 00330 01130 00340
		5.16 GRAD	
	2 % % 2 % %	* 7	04400.
	.0000	0 /t 4	01810 01810 01810 01810 01810 01820 01820 01820 01820
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1300A	2000, 0000 80,FT. 474,0000 1H. 900,7000 1H.		ATM 0.85-4 0.85-4 0.75-4 0

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	MALALETRIC DATA	.000 ELEVIR : .000 .000 SOTLAP : .000
	PARAM	BETA = .000 ALLECH = .000 SPERK = 990.990
HEFT 574 (OA48) ORB 1398		34.7000 3N. .0000 3N. .0000 3N.
•	REPERCE BATA	490,0000 D8.FT. 1989 : 636,7000 IN. 444,6000 IN. 1989 : 630,7000 IN. 1989 : 630,7000 IN.

	ALM NO.	9 48	*	4.1 GEAD	ERADIENT INTERV	L = -3.50	3.6			
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000- 0000- 0000- 0000- 0000- 0000- 0000- 0000- 0000- 0000- 000- 0000- 000-	2000 000 000 000 000 000 000 000 000 00	00000000000000000000000000000000000000	CTN COUNTY C	00.000. 00.000. 00.000. 00.000. 00.000. 00.000. 00.000. 00.000.	CA	00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000	C	02811. 04811. 04100. 04100. 04100. 04800. 04000. 04000. 04000.	-3.65700 -4.06710 -5.71630 -2.71630 -2.71630 -3.71630 -4.69670 -4.69670 -4.69670 -4.69670 -4.69670 -4.69670 -4.69670 -4.69670

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ě	Į		5	5		1	Carre C	03150	74090	06312.	-3.48880
ŧ	11.000	Ť	OST .	01330			OT 620.	03060	61210	04391	-3.75710
į	7.80	•		01410			04450	02820	-,49495	.12190	-4.06020
ŧ	-1.380	•		7010°-	0	Ceapo	0680	.02000	-,35650	00360	-3.87470
į	2.180		erero.		0	(30 GE)()	06250	01920	2537	.07450	-3,07560
į	4.4			Description of the second	0.00	0000	01790	.02710	10990	6560	-1.67430
8				-	1	00000	06290	.02590	.01140	.06320	.101.
į	2		06060		The same	CONTRACTOR	06390	.02600	1,730	orero.	1.0077
ŧ	2					02100	06330	08920	.25310	.06940	2.63110
ŧ	5.75 0		R.			02000	0.06590	02820	.37390	CE 82	3.14930
Ę			0600		2000	06100	06730	.03100	.48210	.1.7310	3.14820
			2000		0.540	CCADO	00000	06920	07.090T.	.06610	-1.90690
ŧ	E	1000	2000	000	10000	ACCOO	A toya.	00034	.05580	00035	.7633

MAL = 6.22 CRADIENT INTERVAL = -5.007 5.00

24 TA	ş	TABUL	ATED BOUNCE	TABULATED BOURCE CATA - MBFC TUT 574	FC TAT 574					PAGE	163
			2	HEFT 574 (OA48) OTS 1398	OKB 1398				(R&TD&T)	77 (18 JUL 73	2
	7	ALL CATA						-	PARAMETRIC DATA	: DATA	
								į	8	S Profes	000
			. 626.7	636.7000 IM.				M 14			•
) !	8			.0200 IN.				AILRON =	200	BUFLAF #	5
	106.7000 IR.		9.	.0000 tw.				SPCORK =	386.886		
SCALE .	0900										
		- CI	Ø. ₹	. 1484 .	6.30 GRA	GRADIENT INTERVAL =	W. = -5.00/	3.00			
			;	. 1	į	ē	ð	3	ಕ	8	5
Ş	ş	8	ā	b		9	5	05050	69460	.31270	-2.22
1.18	-11.70	76360	19700	200	Control of the Contro		16400	.05830	57470	.264DD	-2.17
1,10	_		201			2	16360	03960.	44600	.22300	¥.00
1.18	_	34	OKY!			00100	16330	.05760	39649	.19150	1.39
			Dear.	2000		OX COLO	16320	05570	16270	55.	
3.18						CACOO	16600	05370	02420	.:6630	14
1.18				2000		OCCUPA	16540	05390	.11440	.16690	
		2001	06720				16410	05470	C7672.	.16120	1.37
1.193		818	06800	2 120			16190	09960	.37665	07202.	1.85
1.18			0.830	2620	2000			0.8670	02167	01622.	2.14
1:18	_	9180	04110	08330	00000			26047	641180	06890	2.27
1.290	_	ORDER.	nesso	00010	00000	06100	13430			16640	03
		00760	00000	010	00000	00000	.16640	.0336R	2000		7
	100	5 780	D1344	-,00065	.00013	10000	00016	1000	.06143		
			3	# **	6.61	GRADIENT INTERVAL =	VAL = -5.00/	20.8 /20			
•						į		•	5	8	S
Ì	253	ð	ā	Շ	Ē	5	5		47760		
1.000		91960	.09790	01630	06100°	06000	149.0	0.630			-1.63
006-1			andea.	01600	01300	0.0000	.14760	2000	14.760	18650	-1.66
1.630	5 -7.370	33460	cesso.	01900	.00140	06000	03001	20,000	19886	02781.	-1.39
050.2		00000	09660	015ED	09100	Genza:	DCC#1	9000	1000		
94.1		19190	06430	01510	CONTO.	00000	0.14370	CEBZII.	10000		60
		0.000	01240	01590	02200	acco.	.16160	13000	Chest.		
		01960.	-,0000	01620	CZZOC.	-, 172020	.14000	00000	Mach.		
		13730	03390	01639	. 20160	-,0002	.14060	06160.	01921		
		2000	-,02490	crata	.0C173	00020	.13640	.03100	00912		
		31810	-,03360	01740	cotoc.	00020	.13:30	. 113031	Cu162.		
264.1			Charle	C1010	09100	00050	.12600	.03050	.36960		6.1
				00.00	00300	cocco.	.14020	.03050	04649		Se.
2.5	_	-000			Acres -	90000	000050	CACACA.	.04140	00045	
	#MACION	.04894	COD	T. URKIEN	•						

2.22100 -2.17660 -2.17660 -1.39690 -1.39690 1.37630 1.35630 -1.33600 -34667

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1.9060 -1.9060 -1.6090 -1.9000 -1.9000 -1.9000 -1.9000 -1.9000 -1.60150 -1.9000 -1.9000 -1.9000 -1.9000 -1.9000

NBFC 574 (0448) CRB 1398

(R87097) (18 IU. 75)

DATA
FARACTRIC

	000
	BOTA :
	066. 000.
	8E7A ** AILRON ** SPORK **
	444
	636.7000 PM. .0000 PM.
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	474,6000 34,77. 474,6000 34. 996,7000 34.

		ì	D. 57/ 0	# *	4.06 GRAD	GRADIEST INTERVAL. 2	M. s = 5.00	3			
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		8	3	5	Ē	f	5	3	, !		
		3				OPCIO.	12670	646	31010		
2	20:27		01				:	01730	26140	25.00	-1.56660
	7	-	01150	0600						09571	-1.46590
			01410	Ceano.	01000	8	.11850	2010			544
			0	CTAGO.	00000	06000	.11490	0610.	16480	06631	
				OK MOD	03000	06000	.11200	09810	11320	111	
į	ļ					04040	10000	00910	-,0 63 90	06601	57800
S, S	8		00				CKOL	01650	01230	.10640	11590
	9	00000	OF 180		00000	nenn.		0.70	COSTO	10640	A1347
			0436	01100	01000°	9000		2000			0603
			01410	0,000,-	01000	.00040	C1000.	01660	1120	DOM:	
					COOCO	02000	.09570	.01710	18070	0411.	3000
6	ļ		200			Cecuu	GE280.	00110	01022	13560	1.65560
9.0		Rea;	01710	000				5	-,06070	.10950	55460
		0340	01330	03/20	00000	ocono.	Con.	200			23507
				- 00000	00000	10000	700.	51000	A		
		į									
		1	9	\$ \$	4.90 GRA	DIDIT INTER	GRADIENT INTERVAL = -5.00/	8.8			
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		8	4	Շ	E	ŧ	ð	3	3	}	
		5	1			COCCE.	11360	06300	22000	261.	-1.4326
ļ	9			2		2000	00001	.00260	19690	14030	-1.41700
	*	11910	08090	OKODO.	- LERUX	O CONTRACT	970	0000	2,17070	.12620	-1.35220
4.	1	19460	00300	00100	CHOOS.	. ULKK	-			01011	-1.26790
		1.00	00440	00000*-	00000	C.C.C.	06460.	. C. SEC.	1000		
			-,00000	00070	06100	00000	.:0916C	ONSUG.	06180	2000	
ļ				CAMPA -	OBCCO.	.00043	.08510	09800	06830	06090	. 18090
					Calcula	GPUCG.	26160	09800	-, O 263 0	. De120	32410
	7.50	-,000	-				CACCOL	00800	.01530	.:08145	.16690
4.4	3. X	Crosc.	0536	(2)	DOM:		03660		05750	.98239	05969.
	9.410	00680	K120	CACCO.	(20.75)	Operation.		Caro	OPEU.	CCTAC.	1.18880
9	7.40	11380	02130	0000	06000	CALLINE.		1000000		00400	(306)
		10000	04670	01000	Geoud.	09000	57170	.600	.1516.		
				Cecuro -	G9000	01000	.06540	.00360	06050	02990	0620
	R			a Canada	7	.00003	57.219	SCOCK!	.01635	00354	17331
	MATORIA	10.	2000	1000							

			¥	HEFE 574 (OA46) ORB 1396	RB 1396				(861096)	8) (16 JUL 75	
==									PARAMETRIC DATA	DATA	
	MODELLE IN	į								EVIR :	-20°00
	2000,0000 98.FT.		s 636,7000 2M.	. 7000 IN.				AILRON =	000	BOTLAP =	-14.290
3	*34.7000 IN.	Ž	, and	.0000 IN.				SPCDRK =	066.990		
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		3	. 40%	¥						8	9
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	. 6	08060	C38 10	.00430	02100	0,000	C. 180	06700	13960°-		
	_	-,08080	91330	.0000	00000	06000	00700	00800	onean.	04240	24270
		Ceedo.	01270	06100	06000	06000	ouran.	0.000	2	05790	74910
	200.5	01120	01070	00000	01100	.05070	01940.	Decray.			1.23170
		00121	00610	886	CACCOO.	00000	.07480	05600	Collis.	2000	
			-,00000	06000	09000*	00060	.07240	00000	13490	19661	
			0000	06000	Ceccio.	-,00030	.071.60	.00340	21100	.11650	1.61020
ļ	11.570				06000	06000:-	.069en	08800.	26270	.13540	1.93900
1	13.60	0.74.00	200			06000	06000	.00550	32130	.16200	1.94360
3 7	15.630	. 26710	00430	0.000		- 0000	5	00560	36220	.19340	1.97550
1.84	17.000		00590	02100			06760	1980	GE957	.22760	1.92570
7	29.98	00007	06600.		coccu.		200	2000	0.01	07001	1.56360
	97.0	27400	00490	00000	06000	00019	06246	DECLAI.	2000		2277.6
	ea.orm	- CE 100	-000	-,00062	•1000°-	00030	00159		oce in.		
			Ĭ	HELE 574 (OA44) OTB 1346	9861 990				(R&7:199)	99) (16 JUL 75	3
.*		DATA							PARAPETRIC DATA	c DATA	
	1.27							E VI.S	900	ELEVIR =	-20.000
•	200.17 × 20.07	! !		236.7020 IN.				ATURON =	000	BOFLAP #	-14.250
		1	9	.0000 IN.				SPCBRK "	999.990		
	900	•									
		1	20,000		A.91 GRAD	CRADIENT ANTERVAL =	VAL = -1.00/	007 8.00			
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	A15.14	ŏ	ē	Շ	ž	đ	5	8	,		02020
4		03806	G8000"-	00esc	06000	00100	2020	03600	64046		1.00200
4.00		.57930	01000	00200'-	0010	001219		Contract of the Contract of th			1.71819
	064,14	00869	0000	C6600*-	60040	00100	06990	Decou.			1.62960
	26.330	.74080	0x100.	00620	02000	0.0000	.06730	OCCUR.			1.54110
		04629	09000	00730	.00010	0,000	. D668D	0.000			1.45150
		03114	02100.	00000	00000	01130	.56585		. (363:		16790
		03110.1	06200	01973	5000	00190	.06510	.00540	16119		
		08800	-,00360	01125	CHOOC.	-,00150	.06260	.00550	87320		•
			17,690	01300	.03052	00140	.06180	.00550	. 92300		-
4.53		1.1855		0.4.50	02000	-,90130	CT 620.	.00569	.97039	185591	1.1382
4.133		1.29082	G6911	9500		100100	01720.	.00540	1,00710	0.95540	1,07200
4.939	40.04ED	1.37600	61210	UI 530	0.10.12.5	0000	חבבים	0.5500	. 76020	1 .52350	1.45200
4.999	30.430	08036	01100	(30600	.00040	- : : : 1 3:		10000	19767		

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DATA	BOTAP =
PARAMETRIC DATA	000.
	BETA = ATLRON = SPORK =
	. 0000 IN.
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PA Y	<u>.</u>

		3	6 /400° -01	, ,			<u>.</u>				
			- 02500 - 025000 - 02500 - 02500 - 02500 - 02500 - 02500 - 02500 - 02500 - 025000 - 02500 - 02	- 01490 - 01290 - 01290 - 01290 - 01200 - 0210 - 0210 - 0210 - 0210 - 01500 - 01500	00000- 0000- 00000- 000- 0000- 0000- 0000- 0000- 0000- 000- 0000- 0000- 0000- 000- 000- 000- 000- 0000- 000- 000- 000- 000- 000- 000- 000- 00	71000- 0000- 0000- 00000- 000- 0000- 0000- 0000- 00- 000- 00- 000- 000- 000- 000- 000- 000- 00- 000- 000- 000- 000- 00- 00- 000- 00- 00- 00- 00- 00- 00- 00- 00- 00- 00- 00	CA .09110 .07990 .07990 .07990 .07990 .07990 .07790 .06470 .06470 .06470 .06470 .06410 .07910	CA8184018401940194019702040204020402040	C	.30560 .35160 .40160 .47150 .5120 .76410 .97170 .106630 .106630	1,89780 1,89780 1,61780 1,62800 1,53080 1,53080 1,26930 1,11730 1,11730 1,44087 1,44087
		3	0 7807 OH	14 14 14 14 14 14 14 14 14 14 14 14 14 1	5.01 GR	GRADIENT INTERVAL =	/00°5- = TVA	QC*\$ /			
8:	i,	8	3	5	N.O.	B 6	CA 06710	CAB .00570	Q. .47510	CD .24700	1.92330
•	8	215	00610	2000-	01.00	50130	05.40	06900	.53650	01162.	1.8427
3 :	8				CF 100	90120	06390	.00590	06209	.34420	1.7517
8.	3		05500	01010-	06100	00120	.06560	00900	.66450	S 107	1.6539
ų.		0.75	02810	01050	CC200		.06460	06500.	.73000	.46765	2100-1
		06530	03070	01360	00140	C 100	.06450	.:05610	06064	03.55	1.400A.1
ľ	900	1.05000	-,03430	01419	00060	00210	.06330	900	.65720	07100	1.9934
. 6	3	1.19510	04010	01500	00050	00670	.06780	.00604i	06989	7960	1.2152
\$	36.620	1.25440	D4960	01660	00140	00220	6180	06804	1.01420	.89040	1.1390
•	36.000	1.34620	05630	0175		00160	.06040	.170580	1.05470	.98500	1.0707
8	0.00	1.44100	08260	20.10	00000	50160	.06400	00900	. 00099	.54519	1.4692
1.13	30.445	0.000	00221	00052	10000	01000	00033	00000	00620.	.03644	0425

(R67101) (16 JUL 75) ELEVTR = BOPLAP = CO ...0970 ...10870 ...10820 ...10820 ...11160 . CD .00500 .00500 .00500 .00510 .005450 .10500 .1163 PARAMETRIC DATA C.
-.u3620
-.n0190
..03740
..13990
..1729
..263070
..34750
..46910
..17660 000°. 000°. BETA = AILRON = SPCBRK = CAB .00370
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.00630 CAB .01610 .01650 .01640 .01650 .01650 .01660 .01660 .01660 .01660 5.00 4.17 GRADIENT INTERVAL = -5.00/ 5.00 5.01 GRACIENT INTERVAL = -5.00/ CA .10940 .10730 .10730 .09840 .09870 .09870 .08970 .08970 .08970 .08970 .08970 .08970 .08970 .08970 .08970 .09970 CA ...08470 ...08260 ...07340 ...07340 ...06960 ...06680 ...06610 ...06610 ...061140 .00030 .00030 .00030 .00030 .00030 .00030 .00030 .00030 .00030 HSPC 574 (OA48) ORB 1398 (F6) TABLEATED SOURCE DATA - MSFC TUT 574 CYN
. 20150
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. 202000
. 202000 -.01000 -.00900 -.00900 -.01000 -.01100 -.01100 -.01000 -.01000 RUN NO. 410/ 9 RN/L = 634.7000 IN. .0000 IN. 0. 4097 D -.01040 -.00900 -.00910 -.01110 -.01310 -.01360 -.01740 -.02360 -.01260 2000.0000 98.FT. 474.8000 IN. 574.7000 IN. 11.790 13.690 15.990 20.010 9.720 ALPM
-.300
1.390
3.420
5.420
7.490
9.540
11.580
115.600
17.710 3.45 3.45 3.53 7.65 7.65

1,19690 1,19690 1,19670 1,19740 1,19740 1,19740 2,0610 2,06340 2,06340 2,06340 1,94600 1,94600 1,94600

1,70
-,42620
-,62530
-,45540
1,04970
1,94970
2,03420
1,97160
1,74500

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MSFC 574 (OA44) ORB 1396 (F6)

(R67102) (16 JUL 73)

PARAMETRIC DATA

								RETA		1 2 2 2	
				2							
	73.68 0000.0085	•	976	7005 IN.				ATLRON =	000	BOFLAP =	18.750
	474.6055 IN. 936.7055 IN.	274RP	N 11	.0000 1M.				SFCBRK =	066.99€		
- J.	0500						£ .	5.90			
		RUN NO.	40. 411/ D	1702	4.16 CRA	CRADIENT INTERVAL					
					;	į	3	CAB	ರ	8	2
	***	5	Š	Š	Ē	5	5	}	0.00	05111	16610
5		2000	00820	C2600*-	.00130	00000	.11130	COST.		1960+	30620
* •		0.010		0000	06100	00000	.15895	.01669	D0000.	COGULT.	01200
2.980	1.40	03960	- 15 an			00000	.10520	01910.	05690.	.11090	
2.930	3.510	02965	- 05240	ocalo.			10200	02610.	.14660	.11670	1.2552
	5.590	.15720	02980	02600*-		2000	01010	02610	.20930	.12000	1,63550
	7.620	22430	53420	01919	09006	000	oreco.	610.0	.27465	.14430	1.90320
		0000	C19607-	01030	01100	- 20030	recen.		0.00	16680	2.03250
2.3			04410	-,01050	croco.	J8000'-	00760	nearn.		19400	2.07430
	11. H		00000	E C	09000	000000	.09215	00610	40400		08480
2.930	13.650	43930	0000	9	CKCOAL	00000	09060	.61910	.47390		
286.3	15.930	20015	5 140°-	54110	2000	CALOUT!	0690.	02610.	. 53770		I Sack
2.9	26.030	.98440	06050*-	01060	COCCO.	0.000	04950	03610.	.60340	.31500	1.91500
5	070.0E	.67480	00000	01050	7000			0.00	.27640	.14490	1.90715
200		00200	-,03640	08010	.00115	00030	0.1961.		0360	¥1000	.24262
. N	2010100 2010101	0000	00110	02000*-	05005	nonog.	00152	onen.	76030		
		2	RUN NO. 412/ D	RRYL =	5.01 GRA	GRACIENT INTERVAL =	VAL = -5.00/	5. 50			
								•	(ε	2
	i	į	3	Շ	Š	형	ઇ	3	ָּ ֭֭֓֞֞֞֝֞֜֓֞֓֓֞	00000	40210
ž	Ę	5	j .	0.00	02100	07000	.06490	.00550		Cacan.	00000
4.15	9	CO.	2000	Capero	(Million)	01000	.0629C	.0.3570	.00250	16591	2000
4.95	2.48		COME TO	08900	6000	-,00020	Graea.	.00500	.04250	-	DELLE.
4:33	3.45	.04740	02790	Central.	00000	COCOCO	02770	.00570	.08810	-	1.020.1
4.33	5.430	C6580°	02730	0.0000	Color.	0,000	0440	07500.	.13850	07860.	1.47760
4.93	7.490	.14960	00630	00700	11,110	00000	01110	06800	.16930	.10600	1.78560
		05903	-,03060	00610	0.000		(2)	C9507	.24665	.12319	2,00530
	•	.26630	03520	00730	00000	- 17.K.16.	201100	total or a	30750	14700	2.09100
		7,3360	-,03640	-, 00520	.00030	0,0000	Certa.	0.000	3682		2,08345
		40230	04170	-, 55595	20045		Wester.	000000	CARRY		2.92689
		47830	-,04749	05570	00020	-,00130	.07160	129111	04964		1.96610
			08830	-,00749	-,00030	-,00100	.57050	120.33			1,81690
4.039	-	3556	Deck C	02800-	CKKKIG*		.07240	.00610	.1921.	1	SUZE
4.959		COLUMN.		Q.	(AAAA)	-,00015	99114	SCHICK!	.n1947	•	
		60750		9							

(R67193) (18 JUL 75) 20 32600 37650 37650 37990 374960 25640 .31309 .35950 .43330 .56440 .56430 .76170 .95680 .1,05670 .56390 .56390 .36390 ELEVTR = BCFLAP = PARAMETRIC DATA CL .50840 .57120 .63890 .77420 .90540 .90540 1.005500 1.106500 .84310 060. 060. 67960 .67460 .741911 .61966. .87191 .99250 .104190 .119370 .115390 .115390 .115390 .115390 BETA = ATLPC = SPDBN = 5.00 4.16 CRADIENT INTERVAL = -5.00/ 5.00 5.02 GRADIENT INTERVAL = -5.00/ CA .09020 .080370 .080370 .080370 .080370 .080370 .080370 .080370 .080370 CA 07570. 07570. 07510. 07510. 07500. 07500. 07500. 07500. 07500. 07500. 07500. - 00000 - 00000 - 00000 - 00000 - 00000 - 00000 - 00000 - 00000 - 00000 - 00000 - 00000 - 00000 HSFC 374 (OA46) ORB 1398 (F6) TABULATED SOURCE DATA - MSFC Tuff 574 CTN
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- .00140
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- .00200
- .00200
- .00200
- .00030
- .00030
- .00030
- .00030
- .00030
- .00030 - .01270 - .01270 - .01329 - .01429 - .01529 - .01529 - .01529 - .02510 - . . 000000 - 000000 - 001140 - 011000 - 011000 - 011000 - 011000 - 011000 - 011000 - 011000 - 011000 - 011000 - 011000 - 011000 5 FKL : .0000 1N. .0000 1N. NO. 413/ D CLM -.06980 -.07770 -.09430 -.11190 -.12160 -.13900 -.15970 -.15970 -.11990 -.05390 -.05340 -.05740 -.05740 -.05430 -.10660 -.12040 -.13570 -.15450 -.15450 RUN NO. 414/ 08690 .76690 .85600 .94690 11.04600 11.53900 11.53900 11.53900 11.53900 11.53900 11.53900 11.53900 11.53900 11.53900 26983. 26983. 26209. 26209. 1.1220 1.22630. 1.32600. 1.52230. 1.52280. AEPENENCE DATA 2000,0000 38.FT. 474.0000 1N. 836.7000 1N. 9040 72.020 24.700 26.770 26.670 35.280 35.280 35.280 35.280 35.280 35.280 35.280 35.280 35.280 35.280 35.280 35.280 35.280 36 20.270 24.270 24.270 26.310 26.310 39.440 39.440 39.440 39.620 CATE 20 SEP 75 SKALE :

1,67060 1,76230 1,59210 1,59210 1,59240 1,52400 1,102720 1,01100 1,01100 1,01100 1,01100 1,01100 1,01100

1.90630 1.52460 1.72670 1.63630 1.44230 1.39470 1.13620 1.11370 1.11370 1.144360

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DATE 28 SEP 73

MSFC 574 (OA48) ORB 1398 (F6)

(R671554) (16 JUL 73)

PARAMETRIC DATA

	000.
	BUFLAP =
	000.
	BETA TALRON E
	** 636.700 1W. =
	n # #
₹	XMRP YMRP ZMRP
REFERENCE DATA	SREF : 2000.0000 50.FT. LREF : 474.0000 IN. BREF : 930.7000 IN. SCALE : .0040
	SREF LREST BREF SCALE

		•									
	į	8	×	Շ	ž	ě	5	CAB	ರ	8	5
		,	9000	274.0	08100	02000	09190	.01940	. 59510	.31140	×
	23°52	.0000.			-			01940	01099	.36210	1.62290
	22.630	.74860	05030	51420		2000	-	2000	72540	05024.	1.72560
	24.7%	.6347	35593	01470	00250	05.7.05.	COO.	00000	0.00	COPY	1.62945
	25,770	.92380	96220	51525	-,50240	00073	.97690	06610.	0400	44.77	1.53300
		00000	G6990"-	51 7750	10200	00110	.07540	00610	Dece.	900	4479
		5		D165º	C120C-	DD.18D	.07363	.02000	16.	. as 1 cm	
	20.00		CANAD.	CC 200	01000	00210	.07250	.02020	.9762	. (223)	•
	33.090	1.2120	100001	00000	Carrer	- 00240	02020	01020.	1.02910	.6122.0	1.26690
	35.219	1.30910	09140		S. P.		0.000	COVER	1.07780	.95660	1.10070
	37.290	1.45660	-, 1992	02345	31103	01010				1.00410	1.11470
	200	1. 40245	10620	02645	21100	00340	.06540	2610.			. 04490
			500	0.727.0	02/20-	-, 90300	(1,1590)	.01945	1.15650	1.1.415	-
	41.395	1.09/201	26.41.		Change	(WILKA)	(5570.	CHARGE	.92190	0000	1.44050
	31,100	1.11980	07619	U\$C103-			200000	ervivo.	. n9742	.03635	114278
•	PRADIENT	90670	00350	2,000	.00016	0.015					
		25	RUN ND. 416/ 0	RN/L =	4.9! CRA	CRADIENT INTERVAL =	AL = -5.00/	9.00			
				i	į	ŧ	đ	8	ರ	e	Ş
	ALPHA	3	ğ	5	5	3		56812	44520	25560	1.93720
	20.270	. 55310	02670	:X06CG*-	00000	-,00130		000000		5	1.85170
		62100	03710	0960G	C4000-	03120	.06770	nacon.	1000		
			03480	71140	Cecucio" -	00140	.06650	00200	.623.6	. 23430	•
	24.2.10				00000	9	(36590)	01900	02:69·	.41530	1.0642
	26.310	CYSCO.	04790	01250	(Train -	1000		0.37.00	CE657.	.46480	1.96600
	20.00	06969.	05270	01160	00120					26030	1.47110
	4	06766	06090*-	01660	09000	-,100190	.06530	יוניסכיו			14000
			- neses	01730	CEDON.	-,00215	.06530	01900	.6876.	13640	•
	32.310	10000			CELLOCA	01020	.06460	01900	.94460	06624	1.5744:
	34, 380	1,19220					04947	CONTRACTOR	0.00070	. 62220	1.21710
	36.630	1.29360	-,08449	01980	C2000			CUBIN	1 04430	05816.	1.14100
	TA. AND	1.38730	0956n	01950	-, 00033	(22())*-	.:(1013:				
			40430	07050.1	000040	-,00240	.06190	(4000)	1.00700	11.17 46.11	•
	40.04				01000-	-,00180	.06370	.00620	.62600	.56190	1.4699
	30.430	C6966	U264U					******	02050	.03746	04317
									2000		,

The second secon

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MSFC 574 (OA48) ORB 139B (F6) TABULATED SOURCE DATA - MSFC TVT 574 DATE 28 SEP 73

CLEVTR = BOFLAP = 6.90. 000. BETA = A1LRON = SFDBRK = 636.7000 IN. .0000 IN. XXXXX XXXX XXXX 2690.0000 98.FT. 474.8000 IN. 936.7000 IN. BACK ::

CRADIENT INTERVAL = -5.00/ 5.00 ₹ 1 RUN NO. 416/ D 2.23430 2.23420 1.22342 1.61730 1.61730 2.064730 2.06390 2.06390 2.06390 1.93440 1.93440 .10840 .10840 .11200 .11200 .11200 .11200 .11200 .12000 .12000 .12000 .13940 .13940 ..02560 ..02520 .02520 ..02520 ..26340 ..26340 ..32640 ..32630 ..26600 ..26600 CA .109ED .109ED .109ED .09ED .00ED .09ED .00ED .09ED .00ED .09ED .00ED .09ED .00ED .09ED .00ED CBL
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.00000 . 00150 . 00150 . 00150 . 00150 . 00150 . 00150 . 00050 . . . 00050 . . . 00050 . . . 00050 00050 CY
--.00960
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--.00910
--.00910
--.01060
--.01080
--.01080 -,01020 Q.M -.01410 -.01440 -.01440 -.02040 -.02400 -.02660 -.02660 -.02990 -.04330 5.550 7.620 11.750 15.970 15.970 25.020 87.020 87.020 ALTA -.510 1.480 3.510

4.91 GRADIENT INTERVAL = -5.00/ 5.00 1 **1 2 3 3** NO. 417/ 0

-.46100 .01660 .47760 .93667 1.44520 1.77670 2.116170 2.11630 2.11630 2.11630 1.77490 .00470 .00470 .00480 .00480 .10980 .14000 .17090 .17090 .17090 .17090 .17090 .17090 .17090 CA6 .00540 .00540 .00540 .00550 .00550 .00550 .0056 CA . D6430 . D6270 . O7361 . O7361 . O6920 . O6920 . O6680 . O CC4 -- 000000 -- 000000 -- 000000 -- 000000 -- 000000 -- 000000 -- 000000 -- 000000 -- 000000 0.00 - 0.02970 - 0.02730 - 0.02480 - 0.02480 - 0.02480 - 0.02480 - 0.02590 - 0.02590 - 0.02590 - 0.02590 -.03460 9.545 11.580 15.640 17.720 19.680 9.540 2.450 3.450 3.450 5.490 7.480

ころではないのではないとことない

を行うには、100mmの対対に対対は、ありまたが対対はを持ちたが発射を含めるなどのはあれている。 (100mmの)のはない。 それなどのはないはないなど、などのになっていないない。 あればない

REFERENCE DATA

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PARAMETRIC DATA

8 8

(Re7105) (16 JUL 73)

PAGE 193

(Re7106) (16 JU. 75)

PARAMETRIC DATA

	-40.000 -14.250 19.000
	ELEVIR :
	000° 000°
	DCTA = AILRON :: SFIDBRK =
	7HRP = 636, TOOD 1M. THRP = 00000. = 4HP.
	H H H
_	4 1967 4 1967 5 1967
REPERENCE DATA	SRE7 = 2000,0000 SA.FT. LAE7 = 474,0000 IN. BRE7 = 936,7000 IN. SCALE = ,0049
	SALCY
	SALE SALE SCALE

RUN NO. 531/ D RN/L = 4.94 GRADIENT INTERVAL # -5.00/ 5.00

2	1.78330	1.73360	1.66420	1.56310	1.50130	1.41590	1.33540	1.25690	1.16670	1.11600	1.05210	1.41530	03714	
9	.24973	02262	34290	39640	46000	.53110	01909	.6662n	. 77000	.85960	.94140	. 53450	.03431	
ರ	.44320	50470	37060	09069	09060	.75200	.01210	00799	51370	06036	06066	75660	27.60	
3	00940		0000	000	00500	00000	00500	00930	07500	00530	00500	9		- Charles
5			00000	01220	07630	07640	200	07440			6000	00000		
į	4	200	000e0				0000		9000		nemon.	Noon:	oron.	-,000
			-,0000											
			00400											
			. 04240.											
			. 57960											
			062.23					•	•	•	•			
			4.959										_	4

HSFC 574 (OA48) CFB 1398 WHED

PARAMETRIC DATA

(R87107) (10 JUL 73)

-40.000 -14.250 20.000
ELEVIR = BOFLAP T TRINER =
000.
H H H
BETA ATLRON SPORTK
+ + +
.000 IN. .0000 IN.
8
8
96 0009 41 0007 41 0007
= 2000,0000 LMEF = 474,0000 BMEF = 936,7000 SCALE = 0000
* * * *

MAN NO. 532/ G RW/L = 4.92 GRADIENT INTERVAL = -5.00/ 5.00

		i	;	ł	2	ŧ	ð	3	ರ	e	S
ğ	ş	5	5	5	;	•		27.000	21017	27176	1.78260
				CESTA!	00033	00000	02110.		3000		
£.,	2.0					-	07980	08300	01067	20102	7.7200
			06630	0670	00000						
					02100	00010	2220.	.00530	. 55470	25.	719
4.939	24.26 24.26		reazn.	00000		Control	COLLO	08300	.6147	.36660	1.59010
4.939	26.320	.72240	.03120	-,00660	0	CONTROL OF		07800	00574	.44695	1.90600
4.959	28.350	.60450	.05367	00710	00110	CANCE.	CCC/O.	0,000		***	1.42570
	5	C2.500	03590	00760	00119	C0000.	01210.	.00543			
4.93	20.00			2000	(Kula)	-,00010	.07160	.99849	. 7913:1	. \$49:7	1.34330
4.959	32.490	06296	naecn.	Cent.	97000	0000	(2000)	075(4)	.642en	.66530	1.26660
4.939	34.550	1.07170	.03910	0124D		1000000				.74460	1.19350
	36.610	1.15749	04040	01289	00060	-,00030	.:929::	110000			
				0.7270	00040	-,00019	.ne730	.00530	.9369.	.3965.	
4.939	20.00	100 Miles			130001	0.00030	.06480	02500	.97320	.91930	1.05860
4.939	40, 590	1.53720	Ulcal.		0000	070040	02260	09800	. 73500	. 51629	1.42390
4.959	30.439	.89530	.03750	(1.1/0:1	377.00	00000	1000	שנינמאני	102720	.03356	n3722
	SRADIENT	.04290	.03105	-,00054	nano.		000000	•			

THE REPORT OF THE PARTY OF THE

DATE 28 SEP 73

MSFC 574 (OA48) ORB 1398 W/MCZ

merito (se Jul 75)

PARAMETRIC BATA

REPUBLICE DATA

BETAP :
000.
BETA : AILHON : STORM
• 636, 7005 EM. • coops EM. • coops EM.
1 H H
* 296.0000 96.FT. 74 * 474.8000 1N. TH * 936.7000 1N. ZH
######################################

RUN NO. 549/ 0 RN/L = 4.12 GRADIENT INTERVAL = -5.00/ 5.00

										;	•
				i		(5	5	đ	8	5
į	*****	5	3	Շ	E	ġ	5	!	1		
5		•					2001	01840	25.75	11000	
8	230	200	21300	285	octoo.						
				00000	97100	01000	10760	030.	01230	1746	
8	3.5	200	3				•	20.00	01040	0001	.7255
8	3.910	09580	06010	25 6 08	01100	- atom					•
			2000			00000	20110	0.00	13960	11330	1.6114
2	×.	13061	2010					04910	06002	12590	1.5956
8	7.630	21360	01160	00930	0.000	2000					
} !				(2010)	00100	0000	C6560.		5 863		
Ę	8	-	2010			Carrier		CD8.CD.	32320	35.00	1.975
1	11.00	34900	0150	-,01110	corpo.	- COUNTY				-	-
}				3	CKCCC	09000	26190	96 5	.36595	. 1966	
8	20°5	9	2017						45970	CHECK	2,0310
			- OF 760	06600	02000:	09000	occon.				
R	70.01					- COUNTY	0.0900	01940	. 51920	23960	7.00
8	20.050	.57410	02210	ororo						40940	1.6300
: 1	1	-	- maken	07600.	09000	- 00030	.06390	02610	1000		
2.3	25.62	13460	4 1 1			CANCE .	0630	01945	.26430	.14300	1.84740
200	5.7	272	01310							2000	
•				00000	01000	-,00015	3100	. CENTE	-	1	

MLM ND. 348/ 0 RN/L = 4.95 GADIENT INTERVAL = -5.00/ 5.00

		i	;	č	3	đ	ð	3	d	8	S
ğ	Ę	5	5	;			4		5	04580	41460
1			0.00	0.00670	8550	02000					
								07500	00130	09890	00510
*. T	1.410	90830	0.00	-	octon.				5	20,00	C9 1.7 F.
•		05770	0000	00900	838	0003	06190	26.5	2000		
						-,00050	01000	06600	.07750	.06790	04199
7	5.470	0660.	10017				(8220	orann.	05/21	01560	1.33930
4.838	7,510	13660	- 01563	00820	oron.	operation.					- BOANT
	5	00000	01510	0.00670	06000	0000	007400	01900			
				Cocco	05000	C1100	06120	oceou.	.23500	. 12173	1.93550
1 .	11.300	2262	-,01430					2	GP\$64	14520	2.03460
4.83	13.630	32130	01400	00700	00000	14.020					01730.4
•			C45.0	09900	00000	01100	COLLEG.	02900	.3369.	200	
			9		COCCO	-,00140	01690.	00900	.42230	20740	2.03630
4.53	17.7E	2000	2010-				Coast	CASCO	.46350	.24590	1.96550
1.93	19.630	. 53600	0.0.0	03670						04501	1 71800
	055.0	19090	01470	0.900	CECCU.	- 000 Y	.07420	3	7.5		
	GRADIENT	05020	\$6100.	60000	00000	00018	00104	\$0000	50610.	1 7 (14) -	

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SATE 28 SEP 73	r E	¥	TABULATED SOURCE BATA – HGFC THT 574	CE GATA - M	BPC TAT 574					PAGE	101
			1	C 574 (OA46)	MSFC 574 (ON48) ORB 1398 WW22	7462			(Re7111)	1) (16 JUL	. 2 .
	ROTERO	REPERENCE DATA							PARAMETRIC DATA	DATA	
u	NG 0000*0663	1.11. XMP	*	636.7000 IN.				- 4130	990	GEVIR :	000
	=		h	.NI CCOC.				ATURON =	86.	יין	60 H
SCALE :	936.7305 14 .0060	4. Zrate		.0000 IN.						a XXIII	27.000
		2	RUN NO. 550/ D	- 1/4E =	4.11 GE	GRADIENT INTERVAL =	WAL = -5.00/	8.80			
ğ	A Pass	5	ð	Շ	£	븅	ð	3	đ	8	\$
2.980	20.02		08590	-,01230	00160	00040	.06440	03610.	. 99410	.31400	1.00170
2.930	22.610	.74019	03020	01280	00240	000	.06220	03610.	08050	3638	1.61230
Z.980	24.000	.83460	03460	01379	50275	-,00045	00190	.01990	.72490	.48210	1.71610
2.980	28.780	.92630	03660	01390	90260	00030	02640	.01960	216.	.48810	1.62100
2.980	28.990	1,02050	D4420	01349	00360	01000	.07760	01810.	. 63590	. 96110	1.92520
2.990	31.050	1.11570	04940	01600	C3600'-	-,00050	.07510	00610	.91740	.63930	1.43490
2.980	33.140	1.21390	05460	09610	00150	00100	.07310	01910	074.	72490	1.34670
2.980	35.280	1.31000	-,06150	92120	00140	00130	02 Lo.	06610	1.05660	.81590	1.76190
2.990	37.340	1.40740	06740	52300	00070	00200	0880.	02610	1.07660	02806	1.18400
2.990	39,440	1.50050	07490	02490	29000"-	00240	.06720	.01830	1.11780	1.00650	1.11000
2.990	41.460	1.99630	06160	02460	00050	02250	06990*	orero.	1.13270	1.10650	1.04170
2.990	31.000	1.12170	04940	01610	-,00360	-,00040	.07510	01610.	92230	-	1.43950
	GRADIENT	.D4487	00265	-,00069	01000	00011	00090	00002	.02723	.03623	04142
		3	RUN NO. 551/ 0	ENT.	4.94 GRA	GRADIENT INTERVAL = -5.00/ 5.00	VAL = -5.00	00.6 7			
č	7	8	2	č	Ē	ŧ	5	3	đ	8	\$
			0.000	07.600	09000*-	-,00130	09600	08800	49370	.25630	1.92440
4.93	22.210	. 6287U	07610	00990	00190	00140	06990*	00000	. 55990	. 30140	1.64400
4.950	24.260	71650	02070	01030	00200	00160	.06430	00900	.62300	.35460	1.75170
4.938	24.300	coace.	02540	91130	-,00190	00149	02990*	01900	00000	.41690	1.65340
4.93	28.340	00760	- 03030	-,01240	-,00240	-,00100	.06780	01900	.75500	.46500	1.55860
4.93	30.460	06266	03290	01300	00100	00170	06760	00900	.62150	.56170	1.46290
4.838	× 35	1.09160	D4050	01669	00119	00240	06710	06600	.86439	.64300	1.37400
4.93	34,650	1.19250	04960	01610	00120	00260	.06610	.01360	.94360	. 73200	1.20900
4.930	36.000	1.29240	05510	C9C2G*-	-, 9994n	0330	.06510	06500.	.99740	. RE44D	1.2.900
4.93	36.740	1.36630	06300	02113	0006	-, 00320	.06419	.00560	1.04260	. 91900	1.13450
4.939	40.700	1.46500	07050	-, 02590	0000	06207*-	.06390	.00560	1.06430	1.01670	1.06650
4.99	30.460	.99510	03560	01430	00010	00190	.06990	00000	.62360	.56220	1.46520
	GRADIENT	.04599	00266	0006	50000	00010	•2000-	.0000	G 76 2G*	.03740	04270

(R67112) (10 JU. 75)

PARAMETRIC DATA

-40.900	1.000
	BOPLAP = SPOILR =
000	066. 666
BETA #	ATURON = SPECIAR =
	SPECTR :
	. 0000 11.
	# # # 4 4 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<	-
REPENDICE DATA	Sect = 2000,0000 90.FT. URF = 474,0000 1N. BMC = 936,7000 1N. SCALE = .0000
	CAGE :

	1,06790 1,68190 1,48980 1,41980 1,41980 1,24400 1,18770 1,18840 1,08340 1,08340 1,08340 1,08340 1,08340
	0.01816. .31810. .47840. .47940. .19040. .19040. .19040. .19040. .19040. .19040.
	2. 32.960 . 32.960 . 44.720 . 74.420 . 97.720 . 96.490 1. 002710 1. 002710
3	CAB .01990 .01990 .01990 .01970 .01970 .01990 .01990 .01970 .01970
AL = -5.05	CA .11040 .1080 .10740 .10550 .10550 .09990 .09990 .09880 .09880 .09880 .10170
GRADIENT INTERV	CBL 00110 00090 00110 00110 00110 00110 00110 00190 00190 00190
4.15 GRA	- 200070 - 200170 - 201170 - 201170 - 201170 - 201170 - 201170 - 201170 - 201170 - 201170 - 201170 - 201170 - 201170
1	
NO. 425/ 0	0.00 - 0.
RUN NO.	04 .ereco .retao .retao .eeseo 1.19610 1.19610 1.37240 1.02300 1.02300
	20.340 20.340 20.340 20.920 30.920 35.120 35.120 35.120 35.120 35.120 35.120 35.120

	8.2000 2.3000 2.3000 2.4400 2.4400 2.4400 2.7870 2.7870 2.7870 2.7870 2.7870 2.7870 2.7870
	.4490 .9050 .9050 .9050 .9050 .74370 .74370 .9050 .9070 .97240
3.6	.00610 .00610 .00610 .00610 .00610 .00620 .00620 .00620 .00620 .00620 .00620 .00620 .00620 .00620 .00620 .00620 .00620
AL = -5.00V	CA .09400 .09800 .09800 .09800 .09800 .09800 .09800 .09800 .09800 .09800 .09800 .09800 .09800 .09800 .09800 .09800 .00800 .
ARADIENT INTERVAL =	CBL0020000200001500001500002100021000240002400023000033000033000330
4.56 GRAD	CYN -, ODDED -, CODED
* 7 %	CY01150014200153001510016100227002270022700227002270
0 /224 0	01980 02800 02360 02360 02360 02970 03900 04630 04630 04630
RUN NO.	0416. 9426. 9426. 94290. 94710. 1.00730. 1.19630. 1.18230. 1.18230. 1.27630. 1.27630.
	20.250 22.200 22.250 24.250 26.300 26.410 36.600 36.600 36.600 36.600 36.610

1.54000 1.34000 1.34000 1.26100 1.26100 1.14400 1.01640 1.36700 1.36700

>

-.39030 -.14290 .37900 .37900 11,38600 1,66620 2,02130 2,02420 1,99620 1,99620 1,99620 2,09910

17.710 19.630 9.540 RADIENT

9.540 11.600 13.660 15.660

7.500

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DATE 20 SCP 73

PARAMETRIC DATA

(R87114) (17 SCP 75)

.000 ELEVTR = 000 000 BETA = .0000 IN. .0000 IN. 2362 = 2362 REPERENCE DATA 2000,0000 54.FT. 474.6000 IN. 536.700 IN.

RIN NO. 402/ 0 RW/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

1,67920 1,67920 1,771000 1,711000 1,32110 1,34120 1,17930 1,17930 1,17930 1,17930 1,17930 1,17930 1,17930 1,17930
44900 440090 446270 59090 60090 60090 60090 60090 7460 85730 85730 60090
.56010 .66130 .66490 .74730 .74730 .97300 .97300 1.01790 1.01790 1.05830 .97160
CA6 .01620 .01620 .01700 .01630 .01630 .01930 .01990 .01990
CA .00240 .00201 .00701 .00705 .00705 .00705 .00500 .00500 .00500
CR 99910 . 90910 . 90910 . 90910 . 90910 . 90940 . 90940 . 90940 . 90120 . 90120 . 90120
CYN - 10000-
CLM01930021400230002700027000390003900041700417004170
04
20.610 22.570 24.660 26.730 26.830 35.170 35.170 35.170 35.170 35.170 35.170 35.170

RUM NO. 451/ D RW/L = 4.91 GRADIENT INTERVAL = -5.00/ 5.00

A CONTRACTOR

1,90550 1,80160 1,74470 1,64720 1,245940 1,28940 1,28940 1,28940 1,186440 1,186440 1,45900 1,45900
24560 .24560 .35960 .39990 .46660 .58820 .61670 .69982 .78730 .78730 .78730 .78730
.46630 .52780 .59300 .65870 .78320 .78340 .99130 .95130 .78740
CAB .00510 .00500 .00500 .00500 .00500 .00530 .00530 .00530 .00530
CA .D06030 .D06030 .D06030 .D6700 .D6700 .D6700 .D6740 .D6290 .D6290 .D6290
08.000.000.000.000.000.000.000.000.000.
CYN -, 00020 -, 00040 -, 00070 -, 00080 -, 00080 -, 00080 -, 00080 -, 00080 -, 00080 -, 00080
CY -, 100,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820 -, 20,820
01450 0150 0150 0150 01940 02070 02070 02410 02410 02410
.32430 .59760 .66030 .76780 .85600 1.04860 1.13780 1.32780 1.32790 1.32790 1.42150
20.240 22.210 22.210 22.240 26.340 30.440 31.320 34.380 36.680 36.680 36.680 36.680
4. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.

Service of the servic